B.E.S.T. Writing Anchor Sets
Grade 9

The Florida Department of Education is publishing the Benchmarks for Excellent Student Thinking (B.E.S.T.) Writing scoring anchors and annotations in support of its efforts to maintain transparency of the scoring process for Florida's statewide, standardized Writing assessments. These anchors can be used as a resource for Florida educators, schools, and districts regarding the scoring of student responses on the B.E.S.T. Writing assessments.

Each spring, students in grades 4–10 are administered a set of source texts and a writing prompt based on those sources. Students respond to one of two possible modes – expository or argumentative – and must draw on reading and writing skills while integrating information from the source materials in order to develop and draft a typed, cohesive essay response.

Anchor sets are used as a primary reference for expert scorers as they score student responses to prompts and sources provided during the spring B.E.S.T. Writing administration. Essays selected for the anchor demonstrate a range of skill levels within each scorepoint on the B.E.S.T. Writing rubric. A bulleted annotation follows each response to explain the prominent characteristics of the response in each domain – *Purpose and Structure*, *Development*, and *Language* – described in the rubric. As scorers read student responses, they use the anchor to help determine which scorepoint best fits a response holistically.

As with all assessment content, papers selected for the anchor set are reviewed by multiple committees of Florida educators and include members of the *Just Read, Florida!* office and State Regional Literacy Directors (SRLDs). After these meetings, the state's scoring subcontractor, Data Recognition Corporation (DRC), and the Department's ELA content teams assemble final materials for scorers.

All responses are scored holistically; however, responses at any grade level that do not include source citation cannot earn a score higher than 2 in the *Development* domain.

For more information about the B.E.S.T. Writing assessments, visit https://www.fldoe.org/accountability/assessments/k-12-student-assessment/best/. For questions about this document, please contact Assessment@fldoe.org.

Florida Anchor Key

Grade 9	EXP			Item #37737	Artificial Intelligence
Paper	P/S	D	L		Lithocode
A-1	1	1	1		770002099831
A-2	1	1	1		770005444543
A-3	1	1	2		770002034678
A-4	2	2	2		770002075223
A-5	2	2	2		770005428298
A-6	2	2	2		770002110089
A-7	2	2	2		770004752305
A-8	2	2	2		770002109474
A-9	3	3	3		770005378975
A-10	3	3	3		770004707283
A-11	3	3	3		770002041134
A-12	3	3	3		770005442912
A-13	3	3	3		770004672127
A-14	4	4	4		770005429277
A-15	4	4	4		770005425863
A-16	4	4	4		770005355025

Grade 09 Writing Q37737 INF

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

The idea of this pasage is that how Elon Musk the fonder and creater. Telsa shows that the teslas are becoming more smarter and learning how to do things on its own "Dario Amondei showed an autonomous system that taught itself to play coast runner, an old boat racing game. " This shows that technology has been improve to were they start to act like human beings, its slowly adapting to things like games and stuff which is cool but remeber that things can still go wrong. Things like people getting unapployed and computers and things blowing up theres never a perfect piece of technology there are always something thats gonna happen.

1 – Purpose/Structure – Below grade-level performance demonstrated

- Trying to ascertain a central idea is difficult. Things begin with what appears to be a central idea (*how Elon Musk the fonder and create*r) but then divert to listing issues relating to technology (*theres never a perfect piece of technology there are always something thats gonna happen*).
- No discernible organizational structure is present as the response consists of a random list of ideas loosely derived from the sources (Teslas becoming smarter; tech acting like humans; and tech's impact on humans).
- The only transition is "*This shows that*" between the source and purported analysis. Source information does not show that.
- There is no introduction or conclusion.
- Brevity is also a factor as there is insufficient writing to demonstrate knowledge of purpose, structure, or task.

1 – Development – Below grade-level performance demonstrated

- A lack of understanding of the topic and development is demonstrated.
- Elaboration consists of confusing ideas and demonstrates a lack of knowledge of elaborative techniques. How the Amodei quote shows how technology has improved or how it acts more like human beings is unexplained.
- Minimal evidence is provided from the source materials.
- No citation is present. Had there been citation, the Development score would not have changed.
- Brevity is also a factor as there is insufficient writing to demonstrate knowledge of elaboration, topic, or sources.

1 – Language – Below grade-level performance demonstrated

- Vocabulary and word choice are vague and unclear (*its slowly adapting to things like games and stuff*).
- Sentence structure is simplistic and confusing. Many types of sentence formation problems are present (comma splices, fragments, and run-togethers).
- Density and variety of severe errors are present in usage (*improve* for improved; *more smarter*; *were* for where; *gonna*), spelling (*pasage*; *fonder*; *remeber*), punctuation (contraction apostrophes; commas before quotes), and capitalization (teslas). These errors demonstrate a lack of command of standard English conventions. Errors rise to a level that impacts understanding meaning.
- Tone and voice are inappropriate (*and stuff which is cool*; *gonna*).
- Brevity with errors demonstrates a lack of command of language skills.

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

The advancement in technology is artifical intelligence, ai. The progress and capabilities ai has will reach new heights as it further developes. Examples can vary depending on the intention and purpose, devlopement and improvement in work, recruitment for a job, etc. The main purpose is to help nagivate humans with their day to day life, slowly ai has been able to teach themselves how to behave like a real living being. Ai has come along way to strive foward towards the future for mankind that is to say the road ahead will be a bumpy one. Developement in the work force with the usage of ai can help improve the way work can be done. Ads are posted online to recruit new employees.

Ai is used with technology and technology can be hacked into by hackers, however ai developers are solitying ai systems to be hacker proof.

1 – Purpose/Structure – Below grade-level performance demonstrated

- An ambiguous central idea is present (*The progress and capabilities ai has will reach new heights as it further developes*).
- No discernible organization structure is present. Things meander after stating the central idea. A few ways AI might contribute are listed (*work*; *recruitment*) alongside generalities (*new heights*; *come along way to strive foward towards the future for mankind*; *road…bumpy*). The potential for hacking and "*solitying*" hacking seems tacked on at the end.
- Few transitional elements are present, and those used are confusing (*that is to say*).
- Although some introductory generalities are present (*The advancement in technology is artificial intelligence, ai*), no conclusion is provided.
- Brevity is also a factor as there is insufficient writing to demonstrate knowledge of purpose, structure, or task.

1 – Development – Below grade-level performance demonstrated

- A lack of understanding of the topic and development is demonstrated.
- Elaboration consists of confusing ideas. A few ways AI might *reach new heights* are listed (*work; recruitment*), followed by identifying AI's role (help humans navigate the day-to-day). The only connectivity is between the idea that AI might be used in the work force and recruitment ads for employees. No extension in the form of explanation is provided.
- Evidence from sources is vague and confusing. AI's use in employee recruitment and the potential for hacking is contained in the source materials but is merely referenced without development.
- There is no appropriate citation. Had there been citation, the Development score would not have changed.
- Brevity is also a factor as there is insufficient writing to demonstrate knowledge of elaboration, topic, or sources.

1 – Language – Below grade-level performance demonstrated

- Vocabulary and word choice, where not source-derived, is vague and unclear.
- Sentence structure is simplistic and confusing. Multiple sentence errors are present (comma splices and run-togethers).
- Usage (*nagivate humans*; *life* for lives; *themselves* for itself), capitalization (*ai*), and spelling (*developes*; *nagivate*; *along*; *solitying*; *work force*) are dense, varied, and severe when compared to what is done correctly so as to demonstrate a lack of command of standard English conventions, often obscuring meaning.
- Brevity with errors demonstrates lack of command of language skills.
- Not enough original writing is present to establish or maintain tone or voice.

Grade 09 Writing Q37737 INF

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

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whats new? AI! What is that? AI is artificial intelligence which is robots that do our job for us. There are alot of good benefits about AI, but there are also alot of ups, and downs.

For instsants AI helps do things for us, like clean, and turn on our lights, and things like that. But there are alot of things thst could go wrong like it could get hacked, and it could blow up.That is why we just keep making them better and better.

For an example of AI messing up, Reseacher Dario Amodei made a autonomous sytem that taught itslef to plat an old boat racing game, called "Coast Runners".
while it was playing Coast Runners it kind of went crazy, because like it says in paragraph 3 "rather than trying to finish the race it was driving in endless circles, colliding with other things and repeatedly was catching on fire".

These are reasons why AI needs to be more careful, and be prepared for situations me like this, because at any time this could happen. And when it does happen, they need to be able to fix the situation fastly, and as careful as they can.

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1 – Purpose/Structure – Below grade-level performance demonstrated

- A central idea is provided (*There are alot of good benefits about AI, but there are also alot of ups, and downs*).
- Little discernible organization structure is present. A few things AI can assist us with (*clean*; *turn on our lights*) are listed, followed by potential problems (*get hacked*; *blow up*). Although the response advises that AI is being improved to overcome the faults, the next paragraph just drops in source information about an example of AI's failure in one video game.
- Transitions are confusing. Although "*For instsants*" makes sense before the listed examples in the first body paragraph, "*For an example*" is not followed by an example of ways we're making AI better.
- An introduction and conclusion are present but add little to the response other than to indicate a central idea and that we need to be cautious because problems have occurred with AI.

1 – Development – Below grade-level performance demonstrated

- The response demonstrates a lack of understanding of the topic and development.
- Elaboration demonstrates lack of knowledge of elaborative techniques. Elaboration is limited to a simple pro/con list with a chunk of source information dropped in as one example of AI's failure.
- Source-based evidence is lacking. One source-based example (*Coast Runners*) is merely dropped in without integration.
- Although there is an appropriate citation (*paragraph 3*), the Development score is evaluated holistically and is not impacted by the presence of a citation.

2 – Language – Approaching the range of grade-level performance

- Vocabulary and word choice are basic, demonstrating partial command of the expression of ideas.
- Sentence structure is controlled but does not demonstrate grade-level language facility.
- Although there are a few conventions errors in capitalization (beginning sentences), spelling (*alot*; *instsants*; *sytem*; *plat*), punctuation (apostrophe and commas), and usage (*fastly*), many of the errors can be attributed to keyboarding errors.
- The informal tone and voice (*whats new? AI! What is that?*) is inappropriate in the context of this response.

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

   Did you know that a A.I's have learned many things over time and now can become dangerous to us but also themselves so we should take considerations when using or developing artificial intelligence.

   To begin with we take consideration when using or developing artificial intelligence because we need to make sure that nothing goes wrong when creating the AI. In the text "Teaching A.I. Systems to Behave Themselves" it states that in paragraph 10 line 1 "In some cases, researchers are working to ensure that systems dont make mistakes on their own, as the coast runners boat did". This shows that people are making sure that nothing goes wrong with the A.I. because it has happened in the past.

Secondly taking consideration when developing a artificial intelligence is important because you need to make sure you know what you are creating. In the text "Teaching A.I systems to behave themselves" It states that "The researcher Dario Amodei showed off an autonomous system that taught itself to play Coast Runners, an old boat-racing video game. This shows that the A.I taught itself how to play a gme without anybody helping it.This A.I later became dangerous because of this game it kept catching on fire and kept crashing into walls trying to just get points in the game.

In conclusion you should always make considerations that should be made when using or developing uses for artificial intelligence because you need to make sure that nothing goes wrong with the programing and that the A.I does not become dangerous to itself but to us as well.

2 – Purpose/Structure – Approaching the range of grade-level performance

- A central idea is provided but insufficiently sustained within the task (*Did you know that a A.I's have learned many things over time and now can become dangerous to us but also themselves so we should take considerations when using or developing artificial intelligence*).
- Organizational structure is inconsistent with limited advancement of ideas. The difference between making "*sure that nothing goes wrong when creating the AI*" and knowing "*what you are creating*" is unexplained. This is even more apparent considering that the same text example is used to illustrate (*Coast Runners*).
- Transitional strategies attempt to connect ideas (*To begin*; *This shows that; Secondly; In conclusion*).
- An introduction and conclusion are present but insufficient.

2 – Development – Approaching the range of grade-level performance

- Development demonstrates partial and incomplete understanding of the topic.
- Ineffective elaborative techniques are demonstrated. Support is limited to a source quotation or summary, and commentary is unexplained (*This shows that people are making sure that nothing goes wrong with the A.I. because it has happened in the past*).
- Source-derived evidence is partially integrated, providing uneven support for the central idea. Commentary following quoted material merely restates ideas present within the quoted material with no explanation of the "how" or the "why."
- Although appropriate citation is present, the Development score is evaluated holistically and is not impacted by it.

2 – Language – Approaching the range of grade-level performance

- Vocabulary and word choice are imprecise and basic (*dangerous*), demonstrating partial command of the expression of ideas.
- Sentences are somewhat simplistic in construction, demonstrating partial control. Between vocabulary and sentence structure, there is insufficient original writing to demonstrate enough control to be considered evidence of grade-level language skills.
- Although there are only a few convention errors, there is insufficient original writing to demonstrate grade-appropriate command of language skills.
- Not enough original writing is present to establish or maintain tone or voice.

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

AI or otherwise known as Atificial Intelligence is "the next new thing" but when intergrading it into your daily life there are some considerations to take into account, such as, how they can benefit our lives, how Ai isn't perfect, and how some things are just better off left to be done by humans.

AI is a great new thing and it can help speed up our daily lives in many ways, like for example, who wants to be filling out a spread sheet or rewriting code or something along those lines, when you can just have AI do it for you. But AI dosent only work for small tasks as states in "Ai, radiology and the future of work" AI can now be used to analyse medical immages, make diagnosis fater and cheaper, these machines may even be able to see nuances that humans cannot. AI can and will change many feilds, allowing the fast analysis of data to uncover things that people might have overlooked.

AI is by no means perfect, but its getting there. AI is still somethig that we all are still workng on and its not perfect but also humans aren't either but one way that Ai is trying to learn is through "Extreme trial and error". Reasearchers specify a reward that the AI should strive for, And as itworks a task, the AI keeps a close track of what brings the reward and what doesn't. but this method isn't perfect as every day researchers find ways to improve this method or find a new method, but thid just proves that AI isn't perfect.

AI is great at many things but sometimes things just need a human touch, like as stated "No human is as good at mental arithmetic as a $10 pocket calculator, but thats all the calculator can do". Instead of wondering whether AI can replace a humans job, it is better to ponder whether it could replace a human at a spefic task, most jobs involve many tasks even if that is not always obvious to outsiders.

To conclude what i have informed you of, Atificial Intelligence is "the next new thing" but when intergrading it into your daily life there are some considerations to take into account, such as, how they can benefit our lives, how Ai isn't perfect, and how some things are just better off left to be done by humans.

2 – Purpose/Structure – Approaching the range of grade-level performance

- A central idea is identified in the opening (*AI or otherwise known as Atificial Intelligence is "the next new thing" but when intergrading it into your daily life there are some considerations to take into account, such as, how they can benefit our lives, how Ai isn't perfect, and how some things are just better off left to be done by humans*). The central idea is insufficiently sustained within the task.
- The organizational structure is inconsistent. A three-pronged approach is identified in the opening (AI benefits humans' lives; it isn't perfect; and humans do some things better). These ideas provide for clumping within the body paragraphs.
- Transitions attempt to connect ideas but lack purpose and variety. There is some sentence-to-sentence continuity of thought, and topic sentences are used to identify each chunk, but transitions are limited to simple conjunctions and lack purpose (*and*; *but*; *like for example*; *To conclude*).
- An introduction and conclusion are present but are ineffective as they merely rephrase the prompt, give an outline of what is addressed, and repeat the same in the conclusion.

2 – Development – Approaching the range of grade-level performance

- Development demonstrates partial or incomplete understanding of the topic.
- Elaboration attempts to develop the central idea but relies heavily on sources without sufficient extension. Each body paragraph includes a relevant piece of text, but there is insufficient original development of these ideas. General claims are made without explanation of the how or why (*…thid just proves that AI isn't perfect*). Where some slight bit of analysis is present, it doesn't go far enough to be considered adequate at grade level (*Instead of wondering whether AI can replace a humans job, it is better to ponder whether it could replace a human at a spefic task, most jobs involve many tasks even if that is not always obvious to outsiders*).
- Evidence is related to the topic but is only partially integrated.
- Although appropriate citation is present, other Development considerations do not warrant a higher Development score.

2 – Language – Approaching the range of grade-level performance

- Vocabulary and word choice are imprecise and basic, demonstrating partial command of expression of ideas (*things*).
- Sentence structure is partially controlled. Multiple sentence formation issues are present, particularly in original attempts (comma splices and run-togethers).
- A partial command of standard English conventions is demonstrated. Inconsistent use of correct grammar, punctuation (missing contraction and possessive apostrophes and commas), capitalization (*Ai*), and spelling (*Atificial*; *intergrading*; *spread sheet*; *immages*; *fater*; *feilds*; *somethig*; *Reasearchers*).
- Not enough original writing is present to establish or maintain tone or voice.

Grade 09 Writing Q37737 INF   **2/2/2**

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

> Have you ever thought about Ironman and his techology. Or Batman with his gadgets. Well that's called AI short for artificial intelligence. Some of the considerations that should be made to AI are make them more acessible, make them more human friendly, and lastly make the AI more them have common sense.
>
> Firstly, one of the considerations that should be are to be acessible. As it states in the 23rd paragraph "they could well fail to carry a parcel to a flat at the top of a slippery flight of stairs". Basically this is saying that a person not an AI would know how to do all of these things. Also saying how AI is not as smart as humans yet. Another reason for it to be more acessible is in paragraph 21 which says "but they struggle wit physical jobs, such as navgating a clutered room ". While a human can do that easily because humans are acessible. If an AI cant navigate through a room then how do we expect them to save lives.
>
> Secondly, another one of the considerations is to make AI more human like. As its clearly said in paragraph 18 " But they also decide which images should be taken , confer on tricky diagnoses ,discuss treatment plans with their patients, translate the conclusions of the research literature into the messy buisness of real-life picture practice". This is basically saying how when AI's give patients the results they wont be able to discuss it because the AI is just built for giving results . This also means no questions can be asked by the patient. Another reason that they should make AI's more human like is because because a trained professinal can see things the AI's cant for example in paragraph 15 it says "The machines may not even be able to see nuances tats a human cannot, how risky a patient's cancer is simply by looking at a scan". So basically you cannot just say a patient is cancer free by just looking at a scan which is exactly an AI would do.
>
> In conclusion ,some of the considerations that should be made are make them more acessible, make them more human friendly, and make them have more common sense. So next time you watch a superhero movie look out for the AI's.

2 – Purpose/Structure – Approaching the range of grade-level performance

- A central idea is provided but insufficiently sustained within the task (*Some of the considerations that should be made to AI are make them more acessible, make them more human friendly, and lastly make the AI more them have common sense*).
- The organizational structure is inconsistent. Ideas are chunked around two ideas (accessibility and lack of human characteristics).
- Transitional strategies are basic and repetitive (*Firstly*; *Also*; *Secondly*; *This also means*; *Another reason*; *for example*; *So basically*; *In conclusion*).
- An introduction and conclusion are present but repetitive and simplistic. A reference to superhero gadgets is used in both, but otherwise each merely provides the prompt and main ideas (*acessible*; *human like*; *common sense*).

2 – Development – Approaching the range of grade-level performance

- Development demonstrates partial and incomplete understanding of the topic.
- Ineffective elaborative techniques are demonstrated as ideas used rely heavily on sources and are, for the most part, paraphrased source summary. There is a disconnect between physical constraints on AI noted in the source quotation and the commentary that seems to blame the lack of AI intelligence (saying how AI is not as smart as humans). Elaboration relating to AI's lack of human characteristics doesn't go very far (*So basically you cannot just say a patient is cancer free by just looking at a scan which is exactly an AI would do*). There is too much source summary and not enough original understanding demonstrated.
- Evidence is partially integrated and related to the topic but disconnected from the exposition. The quote about machines not being able to see nuances is also the exact opposite of what the source actually says.
- Although appropriate citation is present, other Development considerations do not warrant a higher Development score.

2 – Language – Approaching the range of grade-level performance

- Vocabulary and word choice are basic, demonstrating partial command of the expression of ideas.
- Sentence structure is partially controlled. Limited variety and complexity are demonstrated.
- Overall, adequate command of conventions is demonstrated. Although there are errors present in punctuation (inconsistent commas after introductory elements, incorrect end punctuation, contraction apostrophes), usage, spelling (*acessible*), and sentence formation, there is enough demonstrated that is correct.
- Overall, tone and voice are inconsistent and conversational (*Basically this is saying*).

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Have you ever thought about losing your job to AI? AI technology has taken the world by storm over the past decade. Many things have been found to be done better by AI, which has made many people worry weather or not they could lose their job to it, but it turns out there are many things that AI can't do better than us, and probably never will. On top of that there are certain things that you have to look out for when teaching an AI to do something, one wrong peice of code can cause a major accident.

The first thing you have to look out fore when using AI is what its goal is and what a reward is that it should be striving for. Without specifying these things the AI could do stuff that you do not want it to do, and/or get stuck in a loop. As stated in source 1 "Teaching A.I. systems to behave themselves" "The boat was far too interested in the little green widgets that popped up on the screen". This is because the AI was not given a specific goal and reward to strive for.

The second thing you have to look at when developing ideas for AI is that we are better than AI at certain things, mostly physical, such as building a chair, but also verbally, such as explaining things to people. According to source 3 "IKEA furniture and the limits of AI' "They(AI) struggle with physical jobs, such as navigating a cluttered room, which are so simple that they hardly see to count as intelligence at all". Also, according to source 2 "AI, radiology and the future of work" "Spreadsheets have yet to sent the accountants to the dole queue, because there is more to accountancy than making columns of figure add up". As the source states, AI begins to get worse at something if there are many tasks to do at once.

The last thing you should look at when developing ideas for AI is the cost. If the cost is higher than what it is for humans and the task is only done a little better, or even the same, then it is probably not worth it. According to source 2 "AI, radiology and the future of work" "A variety of campanies hope that bringing AI into the clinic will make diagnosis faster and cheaper". If it does make it cheaper and faster this would be a great implication of AI. Not only is this great because it makes diagnosis faster and cheaper, but it's great because it is helping out in the medical feild which is already very expensive and important.

These are all things you need to bear in mind when using AI, or developing ideas for it. AI needs a goal and reward in order to work properly. AI is not great at everything, AI is not great in all situation and it is not needed if it does not improve what you are using it for at a similar or higher cost than it already is.

2 – Purpose/Structure – Approaching the range of grade-level performance

- A central idea is identified in the introduction (*Many things have been found to be done better by AI, which has made many people worry weather or not they could lose their job to it, but it turns out there are many things that AI can't do better than us, and probably never will*) but insufficiently sustained within the task.
- Organizational structure is inconsistent, disrupting the advancement of ideas. Ideas are chunked around the need to give AI a specific goal, limits in physicality and when challenged with multiple tasks, and cost.
- Transitions attempt to connect ideas but lack purpose and variety. Basic external transitions are used (*The first thing*; *The second thing*; *The last thing*; *These are all the things*). Some internal transitions attempt to show a relationship between ideas (*This is because; but also…such as*; *Not only is…but*).
- An Introduction and conclusion are present but are simplistic and ineffective. The introduction does attempt to bring the reader in with a rhetorical question (*Have you ever thought about losing your job to AI?*). The response does not, however, focus on this consideration. The brief conclusion merely repeats the central idea and topic sentences.

2 – Development – Approaching the range of grade-level performance

- Development demonstrates partial and incomplete understanding of the topic.
- Elaboration attempts to develop the central idea but relies heavily on sources. Elaboration is limited to merely recharacterizing what is contained in the source information in the first two body paragraphs without sufficient explanation (*This is because the AI was not given a specific goal and reward to strive for*). Elaboration in the third body goes a bit further in addressing why AI's speed and reduced costs might serve better in the medical field because of "importance" and already high cost but doesn't go far enough.
- Evidence is partially integrated and related to the topic but somewhat disconnected from the exposition.
- Appropriate citation is provided. Had elaboration demonstrated more complete understanding, this response would have received a higher Development score.

2 – Language – Approaching the range of grade-level performance

- Vocabulary and word choice are, overall, imprecise, basic, and repeated throughout, demonstrating partial command of expression of ideas (*things*; *stuff*; *great*). There is also an overreliance on source material for expression.
- Sentence structure is partially controlled, somewhat simplistic, and lacks grade-appropriate language facility. There is some attempt at sentence complexity, but overall, most sentences are structurally simplistic and unvaried. Some attempts at sentence complexity result in errors (comma splice).
- Although there are errors present in usage (*weather*), spelling (*fore*), punctuation (missing commas), and sentence formation (comma splice), there is enough demonstrated that is correct.
- Tone and voice are inconsistent, at times becoming informal and nonacademic (*stuff*; *things*) in the context of this response.

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Have you ever heard of an AI? If not well it stands for Artificial Intellegence. Having an AI is a very beneficial source to have right now. When AI developing occurs the inventors or scientist need to know how far the discoveries can go. Or who they will help and work for. For example radiologist who have a very important job.

With all the new technology humans and machines could be more intelligent each day. Scientist need to consider that there could be a chance where these machines could become even too intellegent. It could reach the point where there is no control or idea of what the machines are thinking and solving. According to article 1 it states," But as these machines train themselves through hours of data analysis, they may also fing their way to unexpected, unwanted and perhaps harmful behavior." This explains that the technologist have to comprehend everything the machines do and learn.

Everyone knows how important Radiologist are in the medical field right? But even though they are important they have a huge responsibility. These machines are very useful cause it can let the radiologist work on something more important. While the machine can help out with another task. Stated in AI, radiology and the future of work," Handing one of those tasks to a computerised helper leaves radiologist not with a redundancy cheque, but with more time to focus on other parts of the job-often the rewarding ones." So technically these machines or robots are not taking humans jobs, they are provining the employee or worker with help.

You know how recruiting someone for work is so complicated and takes a long process, computers are having the abillity to help out with that. Considerations like computers helping out was not thought of back then so there were algorithms to fill job openings. But that was way back then, now there are considerations like computers identifying things o the web and even a resume. According to the source 4 its says," A computer would identify key words on resumes, them determine whether those words corresponded to text in job descriptions." Basically what they do is see if what the resumen says is true or at least realistic. That makes it so much easier for the company or employees to select job applicants faster and way more efficiently.

There are many considerations that can still be made by the AI inventors. Most of them are about how they can help others more. Other's are things that they need to watch out for, like how for example they need to see how smart the machines become. These new technologies are making the world better and people need to start to see that. And we are going to make everyone know how great the new considerations are before, after, and during the period of the AI's is occuring.

2 – Purpose/Structure – Approaching the range of grade-level performance

- A central idea is provided and somewhat sustained within the task (*When AI developing occurs the inventors or scientist need to know how far the discoveries can go. Or who they will help and work for*).
- An inconsistent organizational structure is present. Three ideas are used to gather thoughts (risk becoming too intelligent; improving humans; and recruiting).
- Transitional strategies are basic and lack sufficient purposeful connectivity (*This explains that*; *So*; *But that was way back then*, *now*). The use of the conjunction "*but*" in the second paragraph after explaining the importance of radiologists and their responsibility seems misplaced.
- Although an introduction and conclusion are present, they are simplistic and repetitive. The intro does little more than introduce the prompt as a rhetorical question and identify general ideas to be addressed (what inventors need to know about how far they can go in discoveries and how AI will be used in the workforce). The conclusion is slightly more sufficient with some summary and appropriate generality.

2 – Development – Approaching the range of grade-level performance

- Development demonstrates partial and incomplete understanding of the topic.
- Elaboration attempts to develop the central idea but relies too heavily on the sources. Although minor extension is present, it is ineffective. Each body paragraph contains some slight bit of extension and understanding, but they fall just short of demonstrating adequate elaboration. For example, in the second body paragraph the role of AI in helping radiologists is discussed, the idea being that AI is used to free up radiologists' time. Relevant text is provided, but the commentary that follows does not provide sufficient explanation of the "how" and the "why" (*So technically these machines or robots are not taking humans jobs, they are provining the employee or worker with help*).
- Source-derived evidence is partially integrated but unevenly supportive of the central idea.
- Citation is provided (*According to article 1 it states*). Had elaboration demonstrated more complete understanding, this response could have earned a higher Development score.

2 – Language – Approaching the range of grade-level performance

- Vocabulary and word choice are imprecise and basic overall, demonstrating partial command of expression of ideas. Language usage is fairly simplistic and relies heavily on source material for expression.
- Sentence structure is partially controlled, somewhat simplistic, and lacks grade appropriate language facility. Although some sentence complexity is attempted, it results in comma splices. Most sentences are structurally simplistic and unvaried.
- Although there are a few conventions issues throughout (usage, punctuation, spelling, and sentence formation), conventions errors are not distracting overall.
- Tone and voice are inconsistent and at times informal (*right?*) in the context of this response.

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Picture the future for a moment. Maybe you see flying cars, big buildings, robots, and maybe more. Technology has had a huge impact society now and even back then. Some of those things that you pictured are being made right now! Artificial intelligence or (AI) is one of them. AI's have gotten many mixed reviews by people over the years, some are positive and some are negative. But there are many considerations that should be made when using or developing uses for these robots like neural networks and AI's in working fields.

One reason why we should take in neural networks for consideration when using or developing AI's is because of security. In source one paragraph 12 it states that "But Mr. Goodfellow and others have shown that hackers can alter images so that a neural network will believe they include things that aren't really there." The AI's are not protected from hackers and a few little clicks cause a huge error with the system, there is always a chance that this can cause harm to the things around the AI. In source one paragraph 13 it also states that "That becomes problematic when neural networks are used in security cameras. Simply by making a few marks on your face, the researchers said, you could fool a camera into believing you're someone else." Small things like this can cause your privacy and identity to be taken away from you that quick, just a few changes a persons face and a huge problem occurs. There are many things to take into consideration when an AI is involoved and neural networks was just one of them, your privacy and security is on thin ice with this type of technology.

AI's can only do so much and AI's in the working field is another reason why we should take things in for consideration when using or developing AI's. Source two paragraph 15 reads "A variety of companies hope that bringing AI into the clinic will make diagnosis faster and cheaper. The machines may even be able to see nuances that humans cannot, assessing how risky a patient's cancer is simply by looking at a scan..." This can benefit society and many people's health, its a faster, more accurate, and cheaper way to help people. In source two paragraph 17 it also states that "..... No human is as good at mental arithmetic as a $10 pocket calculator, but that is all the calculator can do. Deep learning is broader.... Instead of wondering whether AI can replace a job, it is better to ponder whether it could replace humans at a specific task." AI's can only do so much, there are many jobs/tasks that are easy for humans but may be a struggle for AI's. Like stated in the passage, AIs struggle with physical jobs that are so simple that they don't even count as intelligence. You have to take into consideration that AI' can not do everything that humans can, yes they can be very helpful at times but you must not always rely on them.

To wrap this up, there are many considerations that should be made when using or developing uses for AI's, and two of them are neural networks and AI's in work fields. Although technology can be very helpful and useful in many circumstances, it can't do everything. Working with these types of technological items you have to be aware of hackers, others privacy, and security. A small thing can cause such a big difference in these systems. There are many types of opinions about these technologies and we will never know what these creators have in store for us. All you can do is wait and see what the future holds.

3 – Purpose/Structure – Within the range of grade-level performance

- A central idea is focused on the task and generally maintained throughout (*AI's have gotten many mixed reviews by people over the years, some are positive and some are negative. But there are many considerations that should be made when using or developing uses for these robots like neural networks and AI's in working fields*).
- Organizational structure is logical and allows for advancement of the central idea. Two ideas provide focus for the response (security concerns and use of AI in the workforce). Integrating workplace considerations is logical and internal transition helps show the distinction between where AI can be helpful and where it is limited (*AI's can only do so much, there are many jobs/tasks that are easy for humans but may be a struggle for AI's*).
- Purposeful transitional strategies connect ideas within and among paragraphs (*Small things like thi*s; *This can benefit*; *AI's can only do so much*; *To wrap this up*; *Although*). Clear topic sentences are used to introduce each idea. Paragraph-concluding sentences connect each idea back to the central idea (*There are many things to take into consideration when an AI is involoved and neural networks was just one of them, your privacy and security is on thin ice with this type of technology*).
- A sufficient introduction and conclusion contribute to a sense of completeness. The introduction draws the reader in by painting a futuristic picture where AI has been integrated and previews ideas that will organize the response. The conclusion reiterates without significant repetition and returns to the picture in the introduction.

3 – Development – Within the range of grade-level performance

- Understanding of the topic is demonstrated through logical development.
- Adequate elaboration is used, including a combination of original writing with the use of elaborative techniques appropriately to support the central idea. Each idea brings in multiple relevant text quotes as support and elaborates with examples demonstrating understanding (*This can benefit society and many people's health, its a faster, more accurate, and cheaper way to help people*). Attempts to reconcile efficiency and quality show nuanced understanding (*AI' can not do everything that humans can, yes they can be very helpful at times but you must not always rely on them*).
- Relevant evidence from multiple sources is integrated and lends credibility to the exposition.
- Evidence is appropriately cited (*In source one paragraph 12 it states*).

3 – Language – Within the range of grade-level performance

- Academic vocabulary is integrated, demonstrating clear expression of ideas.
- Varied sentence structure demonstrates grade-appropriate language facility.
- Grade-appropriate command of conventions is demonstrated. Although there are a few conventions issues throughout, multiple distracting errors in the use of grammar, punctuation, capitalization, and spelling are not present.
- An appropriately cautionary and academic tone is used throughout (*All you can do is wait and see what the future holds*).

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Was there ever a time where you have wondered whether or not robots would take over the world and surpass humans? Well, that's not likely. There are a lot of considerations that have to be taken into account such as hackers, the physical dexterity of robots, and even small things like flagging on a resume. These are flaws for a lot of A.I. technology and it's very important that we recognize these flaws and take them into consideration if we wish to develop robots.

Firstly, hackers are a serious issue when it comes to our technology, advanced or not. They will often try to take advantage of something called neural networks, which most A.I. have. According to Source 1, Teaching A.I. Systems to Behave Themselves, Cade Metz explains "Modern computer vision is based on what are called deep neural networks, which are pattern-recognition systems that can learn tasks by analyzing vast amounts of data." Not only is this very useful, but it can also be very dangerous if someone manages to mess with it. What hackers will usually do is fool the A.I. system by tampering with the images that the robots overview. You could trick an A.I. easily with this just by simply altering a photo. According to Source 1, Cade Metz states "Simply by making a few marks on your face, the researchers said, you could fool a cemra into believing you're someone else." In order for us to use and develop these robots, we must advance their neural networks.

Nevertheless, A.I. is very smart except when it comes to physical movement. They are very limited in regards to physical aspects of life. According to Source 3: Ikea Furniture and the Limits of A.I., the Economist Staff explain "Machines excel at the sorts of abstract, cognitive tasks.." The author goes onto say "But they struggle with physical jobs such as navigating a cluttered room, which are so simple that they hardly seem to count as intelligent at all." How can we call something that can't even navigate a room intelligent? People are planning for robots to soon do jobs. But how will that happen if there is no developmental areas regarding phyical movements? According to Source 3, the Economist Staff state "It took a pair of IKEAbots, programmed by humans, more than 20 minutes to assemble a chair that a person could knock together in a fraction of the time." One can only assume that within a few years or so, this flaw will be corrected and the development of A.I. will continue.

Futhermore, A.I. is sometimes used to read over resumes. According to Source 4: A.I. as Talent Scout: Unorthodox Hires, Noam Scheiber explains "A computer would identify key words on resumes, then determine whether those words corresponded to text in job descriptions." This means that anyone can just think of words that the A.I. is looking for and just use them to make it easier to get qualified. Noam Scheiber also states "Applicants can game the process by larding their resumes with terms the machines are likely to be looking for. Conversely, poorly worded job listings could cause computers to overlook qualified candidates." This could cause unfairness when it comes to the job industry. One person may actually be qualified for the job while another may not be. One also might ask why A.I. are reviewing resumes and not actual people if this is happening. If we are placing robots to review these kinds of things, then we must develop them more because it wouldn't be fair to others.

In conclusion, A.I. is developing everyday but there are certain flaws and issues that need to be focused on such as hackers, physical movements, and flagging certain words on things like resumes. It is so important that we improve the development of A.I. if we wish to use it in the future.

3 – Purpose/Structure – Within the range of grade-level performance

- A central idea is focused on the task and generally maintained throughout (*These are flaws* [hackers; lack of dexterity; small things like resume flagging] *for a lot of A.I. technology and it's very important that we recognize these flaws and take them into consideration if we wish to develop robots*).
- Organizational structure is logical and allows for advancement of the central idea. The framework previewed in the opening is used to organize the response (hackers; limitations with physical jobs; and resume review). Paragraph-concluding sentences connect each consideration to the central idea.
- Purposeful transitional strategies connect ideas within and among paragraphs. Functional external transitions are used (*Firstly; Nevertheless; Futhermore; In conclusion*). Internal transitions are more purposeful (*Not only is this…but*; *According to*; *But how will*; *This means that*; *This could cause*; *If we are…then*).
- A sufficient introduction and conclusion contribute to a sense of completeness. The introduction brings the reader in with a robot apocalypse scenario and introduces the structure. The conclusion is a bit less sufficient, reiterating the points made as they relate to the central idea with an eye to the future.

3 – Development – Within the range of grade-level performance

- Understanding of the topic is demonstrated through logical development.
- A combination of original writing with extension integrating relevant text quotation is used to develop the response. Although at times the commentary doesn't go far beyond the source, the response is adequately elaborated overall. Commentary shows understanding throughout (*This means that anyone can just think of words that the A.I is looking for and just use them to make it easier to get qualified*).
- Relevant evidence from multiple sources is integrated and lends credibility to the exposition.
- Evidence is appropriately cited (*According to Source 1*).

3 – Language – Within the range of grade-level performance

- Academic vocabulary is integrated, demonstrating clear expression of ideas (*physical dexterity*; *tampering*).
- Varied sentence structure demonstrates grade-appropriate language facility.
- Use of grade-appropriate conventions is demonstrated. Multiple distracting errors in the use of grammar, punctuation, capitalization, and spelling are not present.
- An academic and cautionary tone and voice is appropriate (*It is so important that we improve the development of A.I. if we wish to use it in the future*).

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Artificial intelligence is not something that can be taken lightly, that is why there should be many procautions and considerations made when developing uses for artificial intelligence. When designing a new form of artificial intelligence, there has to be many tests done to make sure that it is safe for all its users and is under control at all times. If not careful while designing, the machine is able to get hacked or go out of control. Once the considerations are made, artificial intelligence is able to save lives, and help people who are not capable of certain tasks.

Before exposing a piece of artificial intelligence to the world, creaters and researchers need to make sure that they take all considerations to make sure their machines do not go out of control or get hacked. The article "Teaching A.I Systems to Behave Themselves" says that as machines train themselves through many hours of data analysis, they may find their way to unexpected and harmful behaivor. If a machine is not being tested thoroughly, then it will not be exposed to all the possible outcomes of harmful behaivor. A machine could potentially be used for a tool to help people in need, so if something harmful were to happen, it could seriously hurt the user and the company's reputation. "Mr. Amodei's burning boat demonstrated the risks of the A.I techniques that are rapidly remaking the tech world." Amodei's demonstration of the boat opened the eyes of many artificial intelligence creaters, showing them that unfortunate things can happen with these machines, which is why they need to take all possible procautions to ensure saftey. Hacking is also a large issue regaring artificial intelligence. Hackers can simply go in to the machine and change importants factors. For example, the same article says hackers can go to an image and change a few of the pixels, making the image look completely different. That can effect the security and safety of someones cellular device. While designing artificial intelligence, creaters need to take many steps to be sure that will not happen.

Artifial intelligence designs are frequently used in the medical world. They can be used for something as simple as checking pulse, or as complex as picking up the severity of a patient's cancer. According to the article "AI, tadiology and the future of work," the machines may eventually take an unambiguous lead. Over time, if these machines start to get more and more popular, the work of humans in the medical field and some other fields will become unneccesary. Althogh artiicial intelligence is capable of many things, so are humans. That is why creaters need to consider what there machines can actually do and not do, so if there is a time where humans are no longer needed for medical help, we will be completely able to rely on artificial intelligengce. If some machines become more technoligically advanced, then they should be able to supply many servives like radiology for a much lesser price. That would be very beneficial to many people who have cancer and are stuggling financialy. Making sure the machines are as safe as possible could save the lives of many in need.

Overall, the use of artificial intelligence is very popular, and keeps increasing rapidly. So many people rely on these incredible machines on a daily basis to help with everyday tasks or potentialy save their lives. Creaters need to make sure that their machines do not go out of control or get hacked while being sold to the public. That is why making considerations of these machines and testing them to ensure that all users are as safe as possible is extremely important.

3 – Purpose/Structure – Within the range of grade-level performance

- The central idea is focused on the task and generally maintained throughout (*Once the considerations are made* [care in design, prevent hacking, and going out of control] *artificial intelligence is able to save lives, and help people who are not capable of certain tasks*).
- The organizational structure is logical and allows for advancement of the central idea. The response is organized around the concerns (risk of runaway AI and hacking) and benefits AI can provide (medical field). Paragraph-concluding sentences connect the paragraph discussion to the central idea (*While designing artificial intelligence, creaters need to take many steps to be sure that will not happen*).
- Purposeful transitional strategies are used to connect ideas within and among paragraphs (*also*; *For example*; *Althogh*; *That is why*; *Overall*).
- A sufficient introduction and conclusion contribute to a sense of completeness. A cautionary tone is set, and context is provided in the introduction. The conclusion returns to this and connects the points made to the central idea.

3 – Development – Within the range of grade-level performance

- Understanding of the topic is demonstrated through logical development.
- Adequate elaboration includes a combination of original writing with paraphrasing and text evidence to support the central idea (*Over time, if these machines start to get more and more popular, the work of humans in the medical field and some other fields will become unneccesary*). Ramifications of failure to consider the issues raised and causal results are used to elaborate (*If some machines become more technoligically advanced, then they should be able to supply many servises like radiology for a much lesser price. That would be very beneficial to many people who have cancer and are stuggling financial*y).
- Relevant evidence from multiple sources is integrated and lends credibility to the exposition.
- Evidence is appropriately cited (*The article "Teaching A.I Systems to Behave Themselves" says*).

3 – Language – Within the range of grade-level performance

- Academic vocabulary is integrated, demonstrating clear expression of ideas (*unfortunate*; *severity*; *unambiguous*; *technoligically advanced*).
- Varied sentence structure, including some more complex sentences, is used, demonstrating grade-appropriate language facility (*A machine could potentially be used for a tool to help people in need, so if something harmful were to happen, it could seriously hurt the user and the company's reputation*).
- Although a few conventions errors are present, particularly spelling, overall conventions demonstrate grade-appropriate command.
- A hopeful yet cautionary tone and voice are appropriate overall for the response (*So many people rely on these incredible machines on a daily basis to help with everyday tasks or potentially save their lives*).

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Artificial Intellegence (AI) is a powerful tool that has taken the world by storm when it went mainstream in the recent years. AI learning is often used for many tasks in our day to day life without knowing it, whether it be a chatbot that helps you out when you call customer support, or a camera that can recognize your face from 20 pixels on an image, AI can do it all. With such a powerful tool in the hands of anyone who has a computer, without proper considerations and precautions when developing the AI something is bound to go wrong. Expanding on this, these are some considerations and precautions that should be taken into account when developing or using an AI.

AI uses pattern based learning to figure out what its seeing, hearing, and any information that it is given. When fabricating an AI software developers guide the program usually by giving the AI a list of objectives that when completed reward it with points, it is then trained to go for the most amount of point possible. With this feature in place and no proper restrictions taken, a new problem introduces itself. As seen in Source #1 Paragraph #3, "The boat was far too interested in the green widgets that popped up on the screen. Catching these widgets meant scoring points. Rather than trying to finish the race, the boat went point-crazy. It drove in inendless circles, colliding with other vessels." This information enriches the idea of AI needing proper guidance and precautions set in place when being developed or else catastrophy may strike. Solutions to this issue are easier to come across than one might think. The developer of the boat program was able to solve the problem by, according to Source #1 Paragraph #7 "The researcchers now have a way of showing the autonomous system that it needs to win points in Coast Runners while also moving towards the finish line." This method of guiding the AI towards the right path is no different than a parent teaching their child right from wrong. Even though these simple problems have simple solutions that doesnt mean it's all smooth sailing for AI. Since AI is trained soley on human imput and a set amount of data all it takes for the AI to no longer recognize an image is a few wrong pixels, even though the image is completely recognizable to humans Source #1 Paragraph #14 states "If you train an object-recognition system on a million image labled by humans you can still create new images where a human and the machine disagree 100 percent of the time." This causes a fair amount of problems with camera recognition systems built on AI, but as time progresses this problem will only further mitigate itself.

When developing an AI developers not only have to consider the previously mentioned problems with the AI itself, they also have to think about if the program is capable of efficiently solving the problem that humans want it to. In Source #3 Paragraph #21 it mentions "The IKEAbots are a case in point. It took a pair of them, pre-programmed by humans, more than 20 minutes to assemble a chair that a person could knock together in a fracction of that time." This data is a great example of the uses of AI and if is really worth it. The time that it took two highly trained machines to assemble a chair that a human could throw together in a much faster time shows, developers need to consider that the use of their AI is neccessary and is something that benefits the users. A good example of a proper implemention of AI can be seen in Source #4 Paragraph #32, "The software tool can be especially powerful to an employer intent on expanding a search beyond candidates with conventional experience andquaifications. In that case, a recruiter can specify a criteria (like industry, location, and even how likely they are to accept an offer) that would turn up less traditional résumés." this excerpt is referring to an AI based program that automatically looks for and reviews resumes and looks for proper candidates for a job. Developers need to consider uses and proper precautions when developing AI based programs and this "résuméBOT" serves as a great example of this.

AI is a very powerful tool as seen prior, but without proper precautions, considerations, and uses in mind it can very quickly fall apart. With the rise of AI developers looking to spring on the new opportunity need to be very careful as to properly utilize this new tool. Whether it be by guiding the machine every step along the way like a parent teaching his child how to ride a bike for the first time, or through trial and error and fixing the bugs that come along the way. Developers can use this info to take into account proper considerations and precations that should be made when fabricating an AI.

3 – Purpose/Structure – Within the range of grade-level performance

- A central idea is focused on the task and generally maintained throughout (*With such a powerful tool in the hands of anyone who has a computer, without proper considerations and precautions when developing the AI something is bound to go wrong. …these are some considerations and precautions that should be taken into account when developing or using an AI*).
- Organizational structure is logical and allows for advancement of the central idea. Ideas are organized around the principles of how AI needs human guidance and being aware of limitations so as to efficiently integrate AI in real-world uses (overcoming physical limits and résumé review).
- Purposeful transitional strategies connect ideas within and among paragraphs. Clear topic sentences preview what will be addressed in each body paragraph and purposeful internal transitions are used to connect ideas within (*With this feature*; *This information*; *Even though*; *This causes*; *This data is*; *A good example*). Paragraph-concluding sentences are used to connect to the central idea (*Developers need to consider uses and proper precautions when developing AI based programs and this "résuméBOT" serves as a great example of this*).
- A sufficient introduction and conclusion contribute to a sense of completeness. The introduction explains the current role AI serves with a few examples to bring the reader in. The conclusion appropriately summarizes and returns to the central idea with a look to the future (*spring on the new opportunity*).

3 – Development – Within the range of grade-level performance

- Development is logical and demonstrates understanding of the topic.
- Adequate elaboration includes a combination of original writing with paraphrasing and text evidence. The boat race and pixel change examples from Source 1 are used to illustrate concerns (*Even though these simple problems have simple solutions that doesnt mean it's all smooth sailing for AI*). Efficiency considerations are also adequately explained in discussion of physical limitations (*The time it took two highly trained machines to assemble a chair that a human could throw together in a much faster time shows, developers need to consider that the use of their AI is neccessary and is something that benefits the users*) and résumé review.
- Relevant evidence from multiple sources is integrated, lending credibility to the exposition.
- Evidence is appropriately cited (*Source #1 Paragraph #3*).

3 – Language – Within the range of grade-level performance

- Integration of academic vocabulary demonstrates clear expression of ideas (*fabricating*; *enriches*; *mitigate*).
- Sentence structure is varied and demonstrates grade-appropriate language facility (*The time that it took two highly trained machines to assemble a chair that a human could throw together in a much faster time shows, developers need to consider that the use of their AI is neccessary and is something that benefits the users*).
- Use of grammar, punctuation, capitalization, and spelling demonstrates grade-appropriate command of standard English conventions. Just a few one-off errors are present.
- A hopeful yet cautionary tone and voice are appropriate overall for the response (*AI is a very powerful tool as seen prior, but without proper precautions, considerations, and uses in mind it can very quickly fall apart*).

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Day to day life has started to become a struggle for many people. Today's society values hard work over most things, such as emotional wellbeing and personal affairs. From high school students to engineers, many would argue that amount of work that is expected of them can be overwhelming at times. Due to the fact that humans need a helping hand, artificial intelligence, better known as AI, has become increasingly popular. Helping humans is not the only known use of AI, however. AI can be used for a vast majority of tasks, but before robotic intelligence is integrated into such tasks, positive and negative conditions of producing advanced AI should be taken into consideration.

AI can have incredible benefits, but we must also take into account the risks that come along with it. AI, like most things, has the ability to be manipulated to suit our desires. In paragraph 10, Cade Metz writes "Researchers like Google's Ian Goodfellow, for example, are exploring ways that hackers could fool A.I. systems into seeing things that aren't there". Later on in paragraph 13, Metz also writes "That becomes problematic when neural networks are used in security cameras. Simply by making a few marks on your face, the researchers said, you could fool a camera into believing you're someone else.". If the wrong person gets their hands on AI technology, they could easily alter secuirty footage and facial regonition software for worse. The alteration of secuirty camera recognition affects us in more ways than what is first realized. Criminals could get away with violent crimes and their wrong doings would go unpunished, simply because an AI was trained to recognize their face as something other than that. Before artificial intelligence starts to roll out to the general public, patching these exploitable holes is nescessary in ensuring public safety.

Even if AI has the ability to be exploited if found by the wrong people, wonderful medical miracle can be found with the help of artificial intelligence. As seen in paragraph 15, the Economist Staff states "A variety of companies hope that bringing AI into the clinic will make diagnosis faster and cheaper. The machines may even be able to see nuances that humans cannot, assessing how risky a patient's cancer is by simply looking at a scan." If a robot is able to diagnosis fatal illnesses such as cancer and allow for quicker treatment, it is no shock that many scientists are open to the idea of AI in the clinic. Paragraphs 18 and 19 also tell that AI can help many medical doctors with tedious tasks, such as examing a plethora of images to diagnosis a patient and rewriting their medical research into something legible, as well as lowering the costs of expensive medical procedures by the use of machinery. AI, although it may not be able to replace everything, have the ability to help scientists and doctors immensely with medical research.

Like most things created by humans, AI is not perfect and does come with considerable pros and cons. In Source 3, paragraph 22, the Economist Staff writes "Instead, it seems to be a fundamental truth: physical dexterity is computationally harder than playing Go" By this, the Economist Staff tells the reader that AI, although far more advanced in logical and mathmatical areas, struggle with awareness and dexterity; something that comes naturally to humans. Humans outperform AI in some areas, while in others the opposite is true. Take Source 4, paragraph 30 into consideration. Noah Scheiber goes on to say "But recent advances in a form of artificial intelligence known as deep learning have made the machines used by some companies, like Eightfold and the online job hub ZipRecruiter, far more powerful. Instead of simply scanning words on a page and matching them to words in a job description, a machine can now identify skills and aptitudes that don't explicitly appear on a candidate's résumé." Instead of humans having to sift through hundreds and maybe thousands of résumés, AI that has been accustomed to deep learning can not only pick out candidates interested in the job position, but also take into account other skills that may be valuable that are not listed in the job description.

AI's purpose is not to replace the conciousness of humans, but to work as a team with their human counterparts. In fact, AI has proved to be suprisingly human in many different ways. AIs efficient quick learning and knowledge retainment is far beyond human level, but the artificial intelligence's ability to make mistakes and to learn from them is a quality shared by their human teachers as well. If the benefits of AI, such as the ability to conduct modern medical miracles and the openings of job opportunities to several people, as well the exploitable qualities and unpredictablity of robotic intelligence is taken into account, AI development has the possiblity of becoming increasingly advanced.

3 – Purpose/Structure – Within the range of grade-level performance

- A central idea is focused on the task and generally maintained throughout (*AI can be used for a vast majority of tasks, but before robotic intelligence is integrated into such tasks, positive and negative conditions of producing advanced AI should be taken into consideration*).
- Organizational structure is logical and allows for advancement of the central idea. Ideas progress logically from concerns with security to uses in the medical field to a discussion about how best to use AI's skillset (not physically, but in data review).
- Purposeful and varied transitional strategies connect ideas within and among paragraphs. Topic sentences are used to begin each paragraph to set up the discussion that follows (*AI can have incredible benefits, but we must also take into account the risks that come along with it*). Purposeful internal transitions connect ideas (*If*; *it is no shock that*; *as well as*; *although; while in others the opposite is true*; *Instead of*). Where transitions aren't used, there is close sentence-to-sentence continuity.
- A sufficient introduction and conclusion contribute to a sense of completeness. The introduction provides context in describing the current overwhelming workload in some fields and the role that AI can play in helping. The conclusion synthesizes ideas and appropriately projects AI usage in the future.

3 – Development – Within the range of grade-level performance

- Logical development demonstrates understanding of the topic.
- Adequate elaboration includes a combination of original writing with paraphrasing, text evidence, and synthesis. Moments of greater understanding are demonstrated where extension goes further. For example, the risk of altering security footage and the potential harm is more fully explored in the first body paragraph (*Criminals could get away with violent crimes and their wrong doings would go unpunished, simply because an AI was trained to recognize their face as something other than that*). The third body paragraph is less developed.
- Relevant, integrated evidence from all sources lends credibility to the exposition.
- Evidence is appropriately cited (*In paragraph 10, Cade Metz writes; Paragraphs 18 and 19 also tell*).

3 – Language – Within the range of grade-level performance

- Integration of academic vocabulary demonstrates clear expression of ideas (*manipulated to suit our desires*; *alteration*; *diagnosis fatal illnesses*; *conciousness*).
- Sentence structure is varied and demonstrates grade-appropriate language facility (*Instead of humans having to sift through hundreds and maybe thousands of résumés, AI that has been accustomed to deep learning can not only pick out candidates interested in the job position, but also take into account other skills that may be valuable that are not listed in the job description*).
- Use of grammar, punctuation, capitalization, and spelling demonstrates grade-appropriate command of standard English conventions.
- A hopeful yet cautionary tone and voice are appropriate overall for the response (*If the benefits of AI, such as the ability to conduct modern medical miracles…as well the exploitable qualities and unpredictability of robotic intelligence is taken into account, AI development has the possibility of becoming increasingly advanced*).

Grade 09 Writing Q37737 EXP   **4/4/4**

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Over the course of the past few years, the technology of artificial intelligence has become increasingly more common to be used as research is continued to be conducted upon these matters. This is because of the fact that these forms of intelligence are massively successful in completing day to day tasks, and enable their users to do many things never before thought possible. However, despite all of the benefits that artificial intelligence provides, there are still many considerations to be made before using, or developing certain uses for such an advanced science. Some of the reasons in which the power given to these devices should be reconsidered before being put into effect is because these machines are prone to making mistakes, whether it be because of personal error or because of hackers. Not only that, but artificial intelligence, while cognitively brilliant, are not prosperous in handling physical jobs, which makes it so that tasks are handled in a much slower format then if they were completed by humans. Though, these machines are also incredibly productive when handling many happenings, such as diagnosing diseases, playing complex board games, and researching solutions to medical problems for a cheaper price. Therefore, the using, and developing of artifical intelligence should be heavily considered before being put into effect in order to carry out specific jobs.

To begin with, considerations should be made when using, or developing uses for artifical intelligence because of the fact that these devices are prone to mistakes, and simple errors when doing specific jobs. This is due to these machines not having the complete understanding that humans do regarding simple concepts, while having total knowledge of other, more advanced, and less physical things. Therefore, such devices might struggle with handling many tasks as they do not have the foundation to understand certain situations, and thus, might be stuck making the same mistakes until they are revised. As the article, *"IKEA furniture and the limits of AI"* states, "Machines excel at the sorts of abstract, cognitive tasks that, to people, signify intelligence--complex board games, say, or differential calculus. But they struggle with physical jobs, such as navigating a cluttered room, which are so simple that they hardly seem to count as intelligence at all." Due to artifical intelligence's inability to comprehend problems that are not able to solved in a way that is not physical, there are many considerations to be made before deciding to use it, as not only does it lack this ability, but it lacks the comprehension of real world situations as well. Thus, giving these devices such extensive power should be something that is heavily thought about before being put into action.

Another reason as to why considerations should be made when using, or developing uses for artificial intelligence is because of the fact that these devices are able to learn from their mistakes quickly, and are able to help in many situations that involve analyzing data. Such examples are shown in the field of radiology, as because of these brilliant machines, tasks are able to be done quicker, and more efficiently than ever before. Not only that, but certain forms of these devices have become even more prosperous than that of humans when diagnosing patients, which makes it incredibly important to consider the inputting of these intelligences into new situations so that they are able to further cure patients of their illnesses. As the article, *"AI, radiology and the future of work"* states, "A variety of companies hope that bringing AI into the clinic will make diagnosis faster and cheaper. The machines may even be able to see nuances that humans cannot, assessing how risky a patient's cancer is simply by looking at a scan..." This piece of textual evidence clearly demonstrates the notion that artifical intelligence should be heavily considered for a surplus of tasks as it is further developed, and its uses increase. This is because of the fact that such knowledge could impact not only the medical field, but many more life-altering careers if given the chance, making the act of including it even more important.

Not only that, but the usage, and the developing of artificial intelligence should be massively considered because of its abilities in analyzing certain situations. This is shown in such cases as artificial intelligence researching potential candidates for job openings, as in many examples have they been incredibly thorough in their choosing. As shown in the article, *"A.I. as Talent Scout: Unorthodox Hires"* which states, "Instead of simply scanning words on a page and matching them to words in a job description, a machine can now identify skills and aptitudes that don't explicitly appear on a candidate's resume." This piece of textual evidence clearly demonstrates how important it is for artificial intelligence to continue being developed and applied in a surplus of different situations, as the text shows that these forms of technology have enabled for many worthy applicants to be chosen to fill much needed job openings. However, not always do these intellectual devices enable for the proper people to be selected to carry out the tasks needed to be completed. This is because of the fact that such machines tend to wrongly select certain people because of the words shown within their resume. Not only that, but other, more qualified people might not be given a second thought because of this, which further supports the notion of it being incredibly important to reconsider using artificial intelligence to solve certain problems.

To conclude, a multitude of considerations should be made when using, or developing uses for artifical intelligence. This is because these forms of knowledge have many abilities that its inclusion upon certain situations could benefit heavily, such as being able to quickly complete specific tasks, and having the knowledge to potentially find cures for many diseases. However, brilliant machines such as these also have impacts that are detrimental in many fields of study. This is due to these devices being prone to simple mistakes because of their lacking capability to understand physical situations, and because of their openness to being hacked by those who would use them for less than kind happenings. Therefore, the usage of artificial intelligence should be heavily considered before it is put into effect, as not only does it come with many positive happenings, but it also comes with many negative ones.

4 – Purpose/Structure – Above grade-level accomplishment demonstrated

- A central idea is focused on the task and consistently maintained throughout (*Therefore, the using, and developing of artifical intelligence should be heavily considered before being put into effect in order to carry out specific jobs*).
- Organizational structure strengthens the response and allows for the advancement of the central idea. Ideas progress from initially addressing the limitations AI faces in certain specific jobs (those that require complete human real-world understanding and physicality) to those fields where it excels (medical analysis and analyzing data in reviewing job applications). A preview of the structure is shared in the introduction (prone to mistakes, helpfulness in many contexts, and evaluating job candidates).
- Transitions are used to create cohesion. Clear topic sentences and functional external transitions are used to begin paragraphs (*To begin with*; *Another reason*; *Not only that*; *To conclude*) and purposeful internal transitions are used throughout to clarify relationships between ideas (*This is due to*; *Therefore*; *But*; *Thus*; *Such examples are shown in*; *Not only that*; *However*; *This is*).
- The introduction and conclusion are effective and enhance the essay. The introduction provides helpful context and effectively orients the reader to what will follow, and the conclusion reiterates ideas, connecting them to the central idea.

4 – Development – Above grade-level accomplishment demonstrated

- Skillful development demonstrates thorough understanding of the topic.
- Effective elaboration includes original writing combined with paraphrasing, text evidence, and examples that are appropriate to support the central idea. Care is taken to distinguish the types of jobs that AI can do well (data analysis) and those that it struggles with (those that are physical and require a human foundation). The reason for the distinction is explained with understanding of nuance (*This is due to these machines not having the complete understanding that humans do regarding simple concepts, while having total knowledge of other, more advanced, and less physical things*). Moments of higher-level thinking are present throughout, often going into greater depth of analysis (*This piece of textual evidence clearly demonstrates the notion that artifical intelligence should be heavily considered for a surplus of tasks as it is further developed, and its uses increase. This is because of the fact that such knowledge could impact not only the medical field, but many more life-altering careers if given the chance, making the act of including it even more important*).
- Although there is some repetition in how source-derived information is integrated (*As the article…states*), evidence from multiple sources is smoothly integrated and lends credibility to the essay overall.
- Evidence is appropriately cited (*Ikea furniture and the limits of AI; AI, radiology and the future of work*).

4 – Language – Above grade-level accomplishment demonstrated

- Although some overcomplicated phrasing is used at times, the overall vocabulary is academic and furthers ideas (*Therefore, such devices might struggle with handling many tasks as they do not have the foundation to understand certain situations, and thus, might be stuck making the same mistakes until they are revised*).
- Skillful use of varied sentence structure contributes to fluidity of ideas. Greater control in sentence formation is demonstrated with sentence complexity (*This is because of the fact that such knowledge could impact not only the medical field, but many more life-altering careers if given the chance, making the act of including it even more important*).
- Use of standard English grammar, punctuation, capitalization, and spelling demonstrates consistent command of the communication of ideas. Only a few minor errors are present.
- Tone and voice strengthen the overall response. An authoritative tone is maintained throughout.

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

Artificial Intelligence is on the rise, programmers have developed their craft to the point where many consider using AI to replace certain jobs. Delivery drivers, analyzing images and files, work that utilizes intense or repetitive cognitive thinking, completely removing the human fatigue or mistake aspect for computational thinking. Think of a robot driving packages to people's houses, but also consider the robot making a fatal mistake and accidentally hitting a pedestrian on the road. Think of submitting an MRI of someone's head, finding diagnoses that even the most skilled of radiologists may have not caught. But then think of the AI accidentally giving one the wrong diagnosis, the wrong treatment plan follows, treatment that will be stressful and costly. The application of Artificial Intelligence must have certain considerations, many may want to consider whether a human could do a better job providing judgement, and the fact that AI needs to learn before being applied.

One prerequisite of Artificial Intelligence is that the software needs to learn about its job first, this is an important consideration, because it demonstrates how humans cannot completely rely on AI, which limits the way it can be used. For example, if computer scientists wanted AI to learn certain tasks, besides the hours of trial and error it may take, AI may have to "recieve regular guidance from human teachers" (Metz, 6). Teaching AI takes up resources that may even equal the same amount or more to just get a human to do it. Even if this is true, the quality and efficiency of AI versus human may fall towards AI, for computers are obviously faster and once the majority of the learning and teaching has taken place, its use may have higher quality and cost less in the long run. Furthermore, AI in the form of robots or things that require mechanical and physical labor might have a harder time learning them, for "physical dexterity is computationally harder than playing Go" (Economist Staff, 23). Physical limitations to deep learning technology is vast, robotics design and capabilities are less advanced than AI. The AI has to go through the learning process of being physically good, but they do not have things like muscle memory, or hands. How will they learn to use their parts when many things across the internet focus on organic movement that is not suitable for robots? The only thing stopping AI from being able to replace people like delivery drivers is because of the minimal technical skill that they must learn. Learning is an important aspect of everything, cats, dogs, people, AI many things learn. Therefore, consider whether the use of AI practical in the time it takes to learn and carry out specific tasks.

Additionally, an important consideration to make is that a human could do the job better than that of an AI. Certain tasks and jobs require a certain skill set. A skill set that is important for many jobs is the ability to provide judgement. Technology likes to think logically on a scale of set numbers and exact phrases, this is unlike exhibiting empathy, or the ability to make assumptions. AI is used to go through thousands of resumes, but applicants who have "poorly worded job listings could cause computers to overlook qualified candidates."(Scheiber, 29). Some of the blame may be pointed to the poorly written application, and some lies on the fact that AI cannot assume based on a piece of text. An applicant may write that they have taken a class on a certain coding language that isnt the required language, but the AI can not assume that the class had a prerequisite to take a class on the required language, failing the applicant who may qualify or even overqualify for the position. Also, humans and computers have strong points that typically are not the same, one is good at math and the other is good at physical labor. Taking this into account, AI "could replace humans at specific tasks"(Economist Staff, 17) and they could work together to do a task or create a final product better than if only one party participated. This is an important consideration, for humans are better for customer service, handling things with tact and emotion, an AI could easily take that person's problem and information and create a solution that the human could tell the customer. The collaboration of AI and humans can help make decisions, but if a conflict arises between the two, who is an outside party going to trust? The decision between the person who is experienced in their field or a computer that has a reputation of being precise is a dilemma one will have to make in the near future.

In conclusion, the use of Artificial Intelligence is useful in many aspects of life, quality of life changes, important functions that people rely on to get through the day, things that help society run smoothly, AI is versatile in its cognitive thinking, but it is important to consider if it is the best way to execute things. Consider whether humans would do a better job, and that there is also a learning process that takes time and effort to put the AI through. Think of the possibilities, what good and bad things AI could bring to the table, and what could cause them.

4 – Purpose/Structure – Above grade-level accomplishment demonstrated

- A central idea is focused on the task and consistently maintained throughout (*The application of Artificial Intelligence must have certain considerations, many may want to consider whether a human could do a better job providing judgement, and the fact that AI needs to learn before being applied*).
- Organizational structure strengthens the response and allows for the advancement of the central idea. Organization is based on AI's interaction with humans–dealing with how humans interface with AI to overcome problems in AI training and physical limitations and how humans and AI can synergize by taking advantage of their different skillsets.
- Purposeful transitional strategies connect ideas within and among paragraphs and create cohesion. Basic external transitions (*Additionally*; *In conclusion*) combined with topic sentences introduce the two broad ideas (*One prerequisite of Artificial Intelligence is that the software needs to learn about its job first, this is an important consideration, because it demonstrates how humans cannot completely rely on AI, which limits the way it can be used*). Purposeful internal transitions clarify relationships between ideas (*For example*; *Furthermore*; *Therefore*; *Also; but*). The use of a rhetorical question also serves to segue ideas (*How will they learn to use their parts when many things across the internet focus on organic movement that is not suitable for robots?*).
- The introduction and conclusion effectively frame the essay. The introduction previews the concerns with scenarios where AI can have meaningful impacts on society (*completely removing the human fatigue or mistake aspect for computational thinking*) and risk (medical mistakes). The conclusion succinctly reiterates and synthesizes ideas as they relate to the central idea (*Think of the possibilities, what good and bad things AI could bring to the table, and what could cause them*).

4 – Development – Above grade-level accomplishment demonstrated

- Skillful development demonstrates thorough understanding of the topic.
- Effective elaboration includes original writing combined with paraphrasing, text evidence, and examples appropriate to support the central idea. Higher level and deeper thinking is demonstrated throughout (*Even if this is true* [resource expenditure for AI training greater than just having a human do it]*, the quality and efficiency of AI versus human may fall towards AI, for computers are obviously faster and once the majority of the learning and teaching has taken place, its use may have higher quality and cost less in the long run*).
- Relevant evidence from multiple sources is smoothly integrated, lending credibility to the essay. Source quotation is well selected to include only relevant portions (*"recieve regular guidance from human teachers"*). Parenthetical citation is also used to attribute as information that is woven within analysis.
- Evidence is appropriately cited (*(Metz, 6); (Economist Staff, 23)*).

4 – Language – Above grade-level accomplishment demonstrated

- Integration of academic vocabulary strengthens and furthers ideas (*cognitive thinking*; *prerequisite*; *collaboration*).
- Multiple examples of skillful use of varied sentence structures contributing to the fluidity of ideas are present (*The collaboration of AI and humans can help make decisions, but if a conflict arises between the two, who is an outside party going to trust?*).
- Use of standard English grammar, punctuation, capitalization, and spelling demonstrates consistent command of the communication of ideas.
- Tone and voice strengthen the overall response. An authoritative tone is maintained throughout.

Grade 09 Writing Q37737 EXP

Write an expository essay about considerations that should be made when using or developing uses for artificial intelligence (AI).

From "I, Robot" to "The Matrix," there are numerous stories in popular culture centering around possible futures that could arise as artificial intelligence becomes more advanced and more prevelent in society. While many of these possibilities seem bleak, when applied correctly while considering the proper factors, artificial intelligence can signifigantly improve the lives of humans. When finding new applications for artificial intelligence, it should be considered what restrictions the technology has, and in what ways it can most help humanity live more fufilling and higher quality lives. Depending on how it is used, this emerging technology could lead to uncountable improvements to human societies, or negative outcomes the likes of which have never been seen before. Which one comes to be will be determined solely by how humanity chooses to design and utilize it.

One of the primary factors that should be taken into account when implimenting new uses of artificial intelligence is that it is best suited for highly specific, logic based tasks, as opposed to jobs that require the complex coordination that humans inately posess some skill with. In Source 2, the Economist Staff asserts that artificial intelligence will likely continue to be used only in narrow contexts for the forseeable future, pointing out that "No human is as good at mental arithmetic as a $10 pocket calculator, but that is all he calculator can do." While a program designed to help at one task may surpass any human ability to perform that task, human life consists of numerous different minor and major tasks, and the coordination necessary to perform them all is still out of the reach of any program. Further, while deep neural networks may be capable of analyzing vast amounts of data with accuracy far surpassing that of prior technologies, they are often constrained by the data they are provided to work off of. As Cade Metz points out in Source 1, "Simply by making a few marks on your face... you could fool a camera into believing you're someone else." Even if the data set provided to a neural network consists of millions of images gleaned from a wide variety of sources, there will still be cases in which the pattern-recognition network is unable to properly indentify something simply because it seeing something unfamiliar in some way. A somewhat similar phenomenon can occur when the task that an artificial intelligence is given leads it to behave in a manner other than what was intended. In Source 1, Metz provides the example of a system that ends up playing a video game incorrectly because it was told to earn points, rather than beat the game. However, when applied in the real world, a machine given a simple task such as driving a human from their home to their work may attempt to find the quickest possible route, and end up breaking traffic laws in the process. These restrictions must be accounted for when applying artificial intelligence, but when properly factored in, artificial intelligence can be used in ways that vastly improve the lives of people in a multitude of ways.

While artificial intelligence has a number of limitations to the ways in which it can be applied, that does not negate the fact that when applied right, they can make the lives of humans easier and more rewarding. If somebody has a job that requires them to perform numerous interconnected tasks, such as an ER doctor, it can be incredibly useful to have an artificial intelligence program handle the straightforward, logic-based portions of the job, such as performing tests and analyzing their results, allowing the doctors to handle the more human portions of the job, such as consulting with patients. As the Economist staff notes in Source 2 on the applictions of artificial intelligence in the field of radiology, allowing compters to handle even one of the logic based tasks "..leaves radiologists not with a redundancy cheque, but with more time to focus on other part of their job—often the rewarding ones." Handing of the parts of a job that are necesarry to programs can leave the radiologist with more time and energy to handle the parts of their job that require, as the Economist Staff states, "[t]he human touch." Despite the fact that artificial intelligence systems are, in many cases, based around recognizing patterns, they can actually, through identifying commonalities in data that may not be obvious to humans, help humans to break out of pattens they are stuck in that may hold them back. In Source 4, Noam Scheiber explains that when artificial intelligence was used to fill a financial planning position at an online marketing firm, "The top candidate had experience in industries the tech world often shuns, like manufacturing." While traditional mehods of hiring may have led this candidate to be overloked for the position because of her background, the job searching algorithm was able to recognize that she was a good fit for the position regardless. More often than not, humans hold biases in decisions that they make. While artificial intelligence may show preference in different circumstances, depending on the data set it is provided, it can also look past biases that humans may hold when trying to accomplish the best outcome to a task. Figuring out how to apply artificial intelligence such that humans see as many of these benefits as possible such be a high priority for anyone looking for possible uses of the technology.

All things considered, it is important to consider a number of important things when coming up with applications for artificial intelligence. It must be acknowedged that it has limitations in terms of its capabilities, and how it can best aid the humans it works with should be thought about. While different people hold vastly differing views on the future of artificial intelligence, it is just as important to consider how it can best be used in the present to determine what outcome actuually comes to be.

4 – Purpose/Structure – Above grade-level accomplishment demonstrated

- A central idea is focused on the task and consistently maintained throughout (*Depending on how it* [AI] *is used, this emerging technology could lead to uncountable improvements to human societies, or negative outcomes the likes of which have never been seen before. Which one comes to be will be determined solely by how humanity chooses to design and utilize it*).
- Organizational structure strengthens the response and allows for the advancement of the central idea. Two principles are used to organize the response, the types of tasks that AI is more suited to handle (*highly specific, logic based tasks, as opposed to jobs that require complex coordination*) and how AI *can make the lives of humans easier and more rewarding*.
- Purposeful transitional strategies connect ideas within and among paragraphs, creating cohesion. Clear topic sentences guide the reader into each broad idea, and purposeful internal transitions clarify relationships (*Further*; *Even if, there will still be*; *A somewhat similar phenomenon*; *However*; *These restrictions must, but*; *If*; *such as*; *it can be*; *While*; *More often than not*).
- An effective introduction and conclusion enhance the essay. The introduction brings the reader in with popular culture references that feature AI and previews broad themes to be addressed (*fulfilling and higher quality lives*). A more succinct conclusion appropriately synthesizes and returns to the central idea (W*hile different people hold vastly differing views on the future of artificial intelligence, it is just as important to consider how it can best be used in the present to determine what outcome actuually comes to be*).

4 – Development – Above grade-level accomplishment demonstrated

- Skillful development demonstrates thorough understanding of the topic.
- Effective elaboration includes original writing combined with paraphrasing, text evidence, and examples that are appropriate to support the central idea. Multiple instances of higher level and deeper thought are present throughout (*While a program designed to help at one task may surpass any human ability to perform that task, human life consists of numerous different minor and major tasks, and the coordination necessary to perform them all is still out of the reach of any program*).
- Relevant evidence from multiple sources is smoothly integrated, lending credibility to the essay. Sources 1 and 2 are used for limitations in the first body paragraph, and Sources 2 and 4 are used for how AI can help humans lead more rewarding lives in the second body paragraph.
- Evidence is appropriately cited (*In Source 2, the Economist Staff asserts*; *As Cade Metz points out in Source 1*).

4 – Language – Above grade-level accomplishment demonstrated

- Integration of academic vocabulary strengthens and furthers ideas (*bleak*; *inately, gleaned*; *phenomenon*; *commonalities*; *algorithm*).
- Skillful use of varied sentence structures contributes to fluidity of ideas. More complexity and variety in sentence control is demonstrated throughout (*While artificial intelligence may show preference in different circumstances, depending on the data set it is provided, it can also look past biases that humans may hold when trying to accomplish the best outcome to a task*).
- Use of standard English grammar, punctuation, capitalization, and spelling demonstrates consistent command of the communication of ideas.
- Tone and voice strengthen the overall response. An authoritative tone is maintained throughout.