M319: AP Computer Science Principles Name: Saipranav Venkatakrishnan

Explore Performance Task

Research Template Date: \_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| *Source Author:* | *Steve Symanovich* |
| *Source Title:* | How does facial recognition work? |
| *Full Citation:*  *MLA8 from* [*easybib.com*](http://www.easybib.com) | Symanovich, Steve. “How Does Facial Recognition Work?” *Official Site*, Norton, us.norton.com/internetsecurity-iot-how-facial-recognition-software-works.html. |
| *Permalink/URL:* | <https://us.norton.com/internetsecurity-iot-how-facial-recognition-software-works.html> |

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| *In 1-2 sentences, describe what makes this a* ***relevant****,* ***credible****, and* ***easily-accessible*** *source:\** | |
| *Relevant:* | How facial recognition works |
| *Credible:* | **Created by a facial recognition security firm** |
| *Easily-Accesible:* | **Yes** |
| \*If you determine that this isn’t a relevant, credible, and easily-accessible source, then you CANNOT use it. | |

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| *Quote, Fact, or Statistic From Article:* | | |
| Facial recognition is a way to identify a human via their facial features. A facial recognition system uses different features of everyone’s face to identify a user by comparing their face biometrics with other faces in a database | | |
| *Categorize:* | | |
| Description  *Select one:*  Purpose  Function | Effect  *Select one:*  Beneficial  Harmful  *Select one:*  Society  Culture  Economy | Data    *Select one:*  What data it uses  How it uses data (input)  What data it produces  (output)  Data *storage* concern  Data *privacy* concern  Data *security* concern |

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| --- | --- |
| *Source Author:* | Lydia F. Venditti, Jim Fleming, and Kara Kugelmeyer |
| *Source Title:* | Algorithmic Surveillance: A Hidden Danger in Recognizing Faces |
| *Full Citation:*  *MLA8 from* [*easybib.com*](http://www.easybib.com) | Venditti, Lydia Francesca, et al. “Algorithmic Surveillance: A Hidden Danger in Recognizing Faces.” *Algorithmic Surveillance: A Hidden Danger in Recognizing Faces*, *Colby College*, Colby College, 18 May 2019, digitalcommons.colby.edu/cgi/viewcontent.cgi?article=1979&context=honorstheses. |
| *Permalink/URL:* | <https://digitalcommons.colby.edu/cgi/viewcontent.cgi?article=1979&context=honorstheses> |

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| *In 1-2 sentences, describe what makes this a* ***relevant****,* ***credible****, and* ***easily-accessible*** *source:\** | |
| *Relevant:* | It talks about what facial recognition is, how it is used, sand why it is either good or bad. |
| *Credible:* | **It is an honorable thesis from Colby college, and was features in google scholars** |
| *Easily-Accesible:* | **The link brings you to the article** |
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| *Quote, Fact, or Statistic From Article:* | | |
| Facial recognition can be used to determine culprits of burglaries, shoplifting, and other crimes, and can also help search for and find the location of missing people. | | |
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| Description  *Select one:*  Purpose  Function | Effect  *Select one:*  Beneficial  Harmful  *Select one:*  Society  Culture  Economy | Data    *Select one:*  What data it uses  How it uses data (input)  What data it produces  (output)  Data *storage* concern  Data *privacy* concern  Data *security* concern |

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| Because facial recognition isn’t perfect yet, it can misread shoplifter if used in store, effectively ruining a person privacy, and making the customers act differently inside stores with facial recognition. This also means that while facial recognition can find missing people, it is very bad at doing this. | | |
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| *Source Author:* | **ANDREW HEINZMAN** |
| *Source Title:* | [How Does Facial Recognition Work?](https://www.howtogeek.com/427897/how-does-facial-recognition-work/) |
| *Full Citation:*  *MLA8 from* [*easybib.com*](http://www.easybib.com) | HEINZMAN, ANDREW. “How Does Facial Recognition Work?” *Howtogeek.com*, How to Geek, 11 July 2019, howtogeek.com/427897/how-does-facial-recognition-work/ |
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| *Relevant:* | Focuses on how recognition works, and how it affects people |
| *Credible:* | **Has information mentioned in multiple thsis, which are cited in the paper** |
| *Easily-Accesible:* | **Tap URL** |
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| *Quote, Fact, or Statistic From Article:* | | |
| 2d facial recognition uses a picture of you taken by the camera, and measures the distance of different body parts to identify you. 3d facial recognition send out Infrared light onto your face, and then the phone measures the time it takes for the lasers to come back to it to measure how far away parts of the face are. In the end, the facial recognition either approves the person, or says it isn’t the correct person. | | |
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| *Quote, Fact, or Statistic From Article:* | | |
| Without a proper Database, facial recognition software is more likely to mistake people for others, and create more errors. This makes it so facial recognition take up a lot of money to create, but returns very little over time. | | |
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| *Source Author:* | Eveyin Cheng and Grace Shao |
| *Source Title:* | Growing backlash in China against A.I. and facial recognition |
| *Full Citation:*  *MLA8 from* [*easybib.com*](http://www.easybib.com) | Cheng, Evelyn, and Grace Shao. “Growing Backlash in China against A.I. and Facial Recognition.” *CNBC*, CNBC, 6 Sept. 2019, 11:01PM, www.cnbc.com/2019/09/06/ai-worries-about-the-dangers-of-facial-recognition-growing-in-china.html. |
| *Permalink/URL:* | <https://www.cnbc.com/2019/09/06/ai-worries-about-the-dangers-of-facial-recognition-growing-in-china.html> |

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| *Quote, Fact, or Statistic From Article:* | | |
| While data can be hacked or misused by people who get access to the database, the more common privacy problem is the fact that facial recognition is used in cities worldwide, making what you think you are doing private public because it was pick up by facial recognition. It also would allow people to get access to areas where the shouldn’t be. This would be important with confidential state secrets, which are protected via facial recognition. | | |
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*Note: If you require more entries for this source, you can use copy-paste to add more.*