Explore – Impact of Computing Innovations
Written Response Submission Template

Please see [Assessment Overview and Performance Task Directions for Student](#) for the task directions and recommended word counts.

Computational Artifact

2a)

> The computing innovation shown in the computational artifact is social media. Social media's intended purpose is to allow people to share media such as images, videos, and messages with anybody in the world [1]. Social Media functions through computers and devices that connect to the internet. My computational artifact illustrates the purpose by showing a picture of the earth with various people around it. Lines connect them to show that they are using social media to communicate with each other. The artifact also illustrates the function by showing an illustration of two computers that connect with each other.

2b)

> To create my computational artifact I used google slides. I placed pictures that I found on the internet together and used the various tools given to me by slides to add lines, captions and color.
>
> Image Citations:
>
> "Collection of Stick Figure Png Transparent Background (95)." *Sclance*, Sclance, www.sclance.com/pngs/stick-figure-png-transparent-background/view-page-3.htm.
>
> "Earth PNG, Download PNG Image with Transparent Background, PNG Image: Earth PNG, Free PNG Image, Earth Png for Free Download." *DLPNG*, DLPNG, www.dlpng.com/png/254483
>
> "Transfer Icon." *ShareIcon*, ShareIcon, 6 Aug. 2017, www.shareicon.net/tag/transfer?p=3.

Computing Innovation

2c)

Social Media has a beneficial effect on the culture of teachers and their students [2]. When social media is used in classrooms, the student / teacher bond is strengthened. The teacher is able to use the instant communication of social media to instantly notify their students of updates, assignments, and upcoming events. Since Students are already used to using social media in their free time, it also makes sense that the classroom would evolve to be better suited to their culture.

A harmful effect of social media can be seen on the culture of teenagers [4]. Several studies have shown that constant use of social media is destroying their mental health. One study showed that teens who used social media more, had a more negative view of themselves. Another showed an increase in anxiety, depression, and eating disorders. Another threat of teens and social media is cyberbullying, which teenage girls are at most risk to becoming victims of. Constant use of social media can also lead to a culture of teens who do not talk to each other face to face. This means that they are not learning to develop social skills that they will need throughout their lives.

2d)

Social Media keeps track of a lot of data in order to function. This includes your name, phone number, address, billing information, and even current location. Some of this information may be provided by the user, while some of it may be determined by algorithms [3].

For example, many social medias are able to interpret your interest based on data you provide to it. The information consumed as an input is data such as your location history, people you follow, and past online purchases. It transforms this information into interest. It might notice that you bought a pair of sport shoes recently, so therefore it will interpret that you like sports. Now that the social media knows your interest, it is able to output several things. It will output advertisements that match your interest. It will suggest other users that you may like. It may share news stories that you would agree more with politically [3].

A major data storage concern that many social medias face is hacking. Facebook, possibly the largest data storing social media, released recently that millions of users passwords had been stored in plain text rather than encryption, the process of hiding a message in an unrecognizable form [5]. This is concerning, since anyone who hacked into these files would be able to see millions of users passwords in plain sight. Once hackers have a users password, they also may be able to get into another account of the same user, such as a banking account.

References

2e)

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