CS-499-11429  
Professor Brooke Goggin  
Mark Irwin  
10/1/2024

6-1 Journal: Emerging Technology and Artifact Update

The two technologies of interest I have chosen would include Artificial Intelligence and 3D Printing. Artificial Intelligence is dealing with development of computers and machines that can perform human tasks as increasingly incredible speeds. A.I. involves understanding huge amounts of data, analyzing, and making connections. 3D printing involves printing 3D objects from digital models with extreme precision using a wide variety of materials depending on the design of the hardware.

Artificial intelligence will have a large impact on computer science, although still in its early stages it has changed the way some fields are processing data. Artificial intelligence allows the ability to sort through large amounts of data and progress faster then humans ever could before. 3D Printing will likely have an impact on computer science as 3D printing becomes more widespread and financially sound for the average consumer. 3D printing has tremendous potential on what it can impact within the field of computer science and is only limited by the actual hardware and created models.

Artificial intelligence has shown to directly impact humans, not only does it allow humans to make progress faster than ever before, but it has also opened information at people’s fingertips without the need of knowing specifically how to search for it. It has also impacted everyday lives of people in how they process information. I worry about artificial intelligence though as it seems many students are overly relying on A.I. to complete work. Which could lead to long term negative effects on society. I also worry about the ethical issues that could surround A.I. and people overly relying on A.I. while not understanding the information it is producing could lead to ethical issues and incorrect information. 3D printing looks to be extremely beneficial to society, 3D printing has allowed the ability to share models of items that have been designed and allow owners to print the items themselves. It is also being used to 3D print items that are normally expensive or short of supply. With time 3D printing could be the future of how some items are made.

No course outcomes currently remain, I have achieved all five course outcomes.

Status Checkpoints for All Categories

|  |  |  |  |
| --- | --- | --- | --- |
| Checkpoint | Software Design and Engineering | Algorithms and Data Structures | Databases |
| Name of Artifact Used | Artifact Name: SpaceShip Escape!!!  Origin: IT-140-Final Project | Artifact Name: SpaceShip Escape!!!  Origin: IT-140-Final Project | Artifact Name: SpaceShip Escape!!!  Origin: IT-140-Final Project |
| Status of Initial Enhancement | Enhancements Completed | Enhancements Completed | Enhancements Completed |
| Submission Status | Submitted with feedback from the instructor | Submitted with feedback from the instructor | Submitted with feedback from the instructor |
| Status of Final Enhancement | Feedback was applied, and the final polish was applied | Feedback was applied, and the final polish was applied | Feedback was applied, and the final polish was applied |
| Uploaded to ePortfolio | Uploaded to ePortfolio | Uploaded to ePortfolio | Uploaded to ePortfolio |
| Status of Finalized ePortfolio | Submitted, waiting for feedback | Submitted, waiting for feedback | Submitted, waiting for feedback |