**6-1 Journal Emerging Technology and Artifact Update**

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Since the release of ChatGPT on November 30, 2022, AI has become a new trend and a breakthrough in different industries. Interestingly, AI and machine learning are not new in the computer science field, though we have had enough data for AI models to train. As social media, streaming services, and e-commerce platforms boom massively, the collected data from user information, interactions, preferences, food, sports, gaming, and streaming choices has become a gold mine for AI models to predict accurately the next move of the user.

Unfortunately, due to a lack of government regulation over AI products, the impact will not be great in the long run. I believe that the dependency on large language models will increase the number of illiterate people. For example, university students currently like to use AI to solve their homework problems and write their essays. The amount of effort in actual education, understanding, brainstorming, and mental challenge to come up with your own words based on your understanding of the topic and personal experience is zero. The result is a so-called educated person with a degree who cannot even write their name using a pen. Unfortunately, the nature of the fast-paced industry driven by profit is taking over everything in the name of advancement, leaving behind devastated communities. On the other hand, we have tech fanatics like Elon Musk, who push to conquer Mars because the Earth is ruined enough to satisfy his personal interest, and no international organization can put a brake on datacenters’ construction and their impact on global warming or communities nearby these ticking bombs. Unfortunately, Musk is viewed as a role model by many, even though they are the first to be undermined by the advancement paradigm.

Additionally, cobalt is extracted from Congo using children for mining, but it’s cool to have an EV. Lack of governance in the IT sector can lead to us destroying ourselves if governments and international organizations don’t put a cap on that. Pushing LLMs into the public domain without studying the impact on societal economics and communities is like handing a 3-year-old a gun to play with. LLMs are a great advancement for business and people and can utterly improve a lot of research areas, yet organizations need to limit the usage and the dependency on it.

Currently, the IT sector is suffering from our own products; companies lay off thousands of engineers yearly, replacing teams with a few engineers who can use AI tools properly, ignoring the impact on those employees’ well-being, families’ financial plans, and mental health. Again, another tech fanatic would argue that AI will create a lot of jobs. However, as per Mo Gawdat, a former Google executive who speaks out on the dangers of AI, 41% of employers globally plan to downsize their workforce due to AI. Lastly, AI is like any other tool—a double-edged sword that has both positive and negative consequences. If care is not taken, the price is high.

Robotics and autonomy are the second after AI in terms of reshaping many aspects of our lives. As of now, drones are serving in many different industries as follows: medical field supply, entertainment industry, military, package delivery and human rescue missions. Some countries currently have completed automated restaurants and shops running by robots, as it’s reduce the cost for business owners; cutting medical insurance, biweekly payments for workers and cut off workers mediocracy; It’s impacting the society as many people lay off from work and increase the level of insecurity and sense of belonging. Once again, governments need to step in to govern the level of autonomy within industries to retain the social fabric is stable as possible. The European union currently maintains certain rules and regulations to protect the employees against arbitrary or unjustified layoffs.

| **Checkpoint** | **Software Design and Engineering** | **Algorithms and Data Structures** | **Databases** |
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| **Name of Artifact Used** | **Artifact name:** Company Data Dashboard  **Origin:** CS 340 Client-Server Side Application  **Artifact name:** Inventory Management Android Mobile App  **Origin:** CS 360 Mobile Architect and Programming | **Artifact name:** Company Data Dashboard  **Origin:** CS 340 Client-Server Side Application  **Artifact name:** Inventory Management Android Mobile App  **Origin:** CS 360 Mobile Architect and Programming | **Artifact name:** Company Data Dashboard  **Origin:** CS 340 Client-Server Side Application  **Artifact name:** Inventory Management Android Mobile App  **Origin:** CS 360 Mobile Architect and Programming |
| **Status of Initial Enhancement** | Enhancements completed | Enhancements completed | Enhancements completed |
| **Submission Status** | Submitted waiting on feedback from the instructor | Submitted waiting on feedback from the instructor | Submitted waiting on feedback from the instructor |
| **Status of Final Enhancement** | Finished and waiting for feedback from the instructor | Finished and waiting for feedback from the instructor | Finished and waiting for feedback from the instructor |
| **Uploaded to ePortfolio** | Uploaded to Github without narrative of Git Pages | Uploaded to Github without narrative of Git Pages | Uploaded to Github without narrative of Git Pages |
| **Status of Finalized ePortfolio** | Planned but not yet completed | Planned but not yet completed | Planned but not yet completed |

**References**

**Jackson, A. (2025, August 5). *Ex-Google exec: The idea that AI will create new jobs is ’100% crap’—even CEOs are at risk of displacement*. CNBC.** [**https://www.cnbc.com/2025/08/05/ex-google-exec-the-idea-that-ai-will-create-new-jobs-is-100percent-crap.html**](https://www.cnbc.com/2025/08/05/ex-google-exec-the-idea-that-ai-will-create-new-jobs-is-100percent-crap.html)