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	Algorithms and	Databases
	Engineering	Data Structures	
Name of	Artifact name: Company	Artifact name:	Artifact name:
Artifact Used	Data Dashboard	Company Data	Company Data
	Origin: CS 340 Client-Server	Dashboard	Dashboard
	Side Application	Origin: CS 340	Origin: CS 340
	Artifact name: Inventory	Client-Server Side	Client-Server Side
	Management Android Mobile	Application	Application
	App	Artifact name:	Artifact name:
	Origin: CS 360 Mobile	Inventory	Inventory
Architect a	Architect and Programming	Management	Management
		Android Mobile App	Android Mobile App
		Origin: CS 360	Origin: CS 360
		Mobile Architect and	Mobile Architect and
		Programming	Programming
Status of	Enhancements completed	Enhancements	Enhancements
Initial		completed	completed
Enhancement			

Submission	Submitted waiting on	Submitted waiting	Submitted waiting
Status	feedback from the instructor	on feedback from the	on feedback from the
		instructor	instructor
Status of	Finished and waiting for	Finished and waiting	Finished and waiting
Final	feedback from the instructor	for feedback from	for feedback from
Enhancement		the instructor	the instructor
Uploaded to	Uploaded to Github without	Uploaded to Github	Uploaded to Github
ePortfolio	narrative of Git Pages	without narrative of	without narrative of
		Git Pages	Git Pages
Status of	Planned but not yet completed	Planned but not yet	Planned but not yet
Finalized		completed	completed
ePortfolio			

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.

 $\frac{https://www.cnbc.com/2025/08/05/ex-google-exec-the-idea-that-ai-will-create-new-jobs-is-100percent-crap.html}{}$