

## **5-1 Journal Computer Science Trends and Artifact Update**

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The two significant trends I would like to discuss are Artificial Intelligence and Cloud Computing. Without a doubt the impact of AI within the last few years have notable in many different areas. As AI has become a buzzing word for everyone around the globe and its impact on people, society and economy can be either beneficial or also destructive. The impact on computer science is quite wild from different perspectives. As AI models are advancing in generating apps functionalities based on zillions of resources like docs, knowledge bases and github, AI models are posing a major issue in the market as companies start relying on fewer engineers with the help of AI models. Notably, AI cuts the time massively in developing applications, though it's not very reliable. As a developed, I consider AI model as a starting point for repeating tasks, but I do have to vet the generate outcome and not a reference for actual work. The second trend is Cloud computing which became the backbone for almost all industries infrastructures. Pay as you go (PAYG) became a very successful model in infrastructure consumption, cloud has advanced a lot of industries, improved the quality of the applications and increased the security measures for products. Cloud computing has flourished the software industry with abundant opportunities and new still sets, added Infrastructure as Code in developers' back pockets. Infrastructure doesn't need reservation or months on installations and specialized professionals to provision the needed infrastructure. IaC increased the possibilities of research and development, facilitating the projects' deployments, adopting DevOps has been a major enhancement in developers' world.

## Status Checkpoints for All Categories

### Artifact: Web Application (Pet Shelter)

I finished all the necessary work on the project and provided a readme file to show the process of installing the dependencies and screenshots

Checkpoint	Software Design and Engineering	Algorithms and Data Structures	Databases
Name of Artifact Used	Pet Shelter		
Status of Initial Enhancement	Done	Done	Done
Submission Status	Done	Done	Done
Status of Final Enhancement	Done	Done	Done
Uploaded to ePortfolio	Done	Done	Done
Status of Finalized ePortfolio	Done	Done	Done

### Artifact: Mobile Application

Checkpoint	Software Design and Engineering	Algorithms and Data Structures	Databases
Name of Artifact Used	Mobile App		
Status of Initial Enhancement	In Progress	Done	In Progress
Submission Status	In Progress	Done	Work in Progress
Status of Final Enhancement	Not Completed	Done	Not Completed
Uploaded to ePortfolio	Not Completed	Done	Not Completed
Status of Finalized ePortfolio	Planned	Planned	Planned