**Artificial Intelligence in Enterprise Systems**

**Term Project**

**Value:** 20%

End of Week 14 (Final Submission)

**Introduction:**

This is very open-ended project. You need to select a data driven problem to solve using various technologies you have learned so far. The problem can be from any domain such as finance, engineering, medical or sales. You should be able to solve the problem using supervised learning, unsupervised learning, reinforcement learning or any other types of technique. Your solution should be deployed in such way that users can interact with your solution. To deploy your solution, you need to write standard code following PEP8 style guidelines. You should deploy your solution in a docker or app hosting platform such as Heroku or any cloud platforms (e.g., google app engine). Your final project will be graded on overall solution pipeline you develop. Table below lists the key considerations that will be used in final grading.

|  |  |  |
| --- | --- | --- |
| item | Consideration | Marks |
| 1 | Problem definition and Project Pitch | 20 |
| 2 | Exploratory Data Analysis | 15 |
| 3 | Solution Development | 15 |
| 4 | Solution Deployment   * Git * Frontend * Docker/docker-compose | 20 |
| 5 | Coding Standard | 10 |
| 6 | Presentation Standard | 10 |
| 7 | Final Repo and Report Standard | 10 |

**Submission:**

Will be communicated.

**This assignment relates to the following Course Learning Outcomes:**

CLO-1: Assess and evaluate importance of AI in various enterprise settings and develop strategies for developing enterprise AI solutions

CLO-2: Write industry standard code and use git to work in agile environment for developing enterprise AI products

CLO-3: Collect data, conduct research, develop and evaluate models for developing enterprise AI solutions

CLO-4: Perform various analysis using enterprise cloud solutions such as AWS, Google and Azure Cloud services

CLO-5: Perform various DevOps operations (e.g., pytest) using various local and cloud technologies and Develops Flask API

CLO-6: Develop and deploy Enterprise AI solution pipeline using various technologies (i.e., Local, Dockers, Heroku or cloud)