CS661 – Python Programming

Final (Team Submission) Requirements

Total Points: 100

Task	Points	Self-assessment
Problem Definition: You should be able to clearly explain your dataset, what for, why you are Building the model, and what kind of problem you are working on, Prediction or Classification(problem statement).	10	8
References: Refer to at least 2 papers from conferences (IEEE, ACM, etc.) per group member and summarize what others have done (what methodology they have implemented) and what is novel about your project.	20	10
PowerPoint Presentation: Your final presentation must have an Introduction, what kind of problemyou are solving, classification, or prediction. Problem definition or hypothesis, the dataset used, your EDA backed by appropriate visualizations, results, and conclusion.	10	10
Python Notebook: Develop a machine learning model (using SKLEARN); you can choose any model from prediction to classification. The coding should include classes and methods associated with classes, with every method included with exception handling, and include the code in a Python package and call those in your notebook. EDA, Data pre-processing should have functions.	40	30
Results: You should have appropriate metrics to display results. (classification report, confusion matrix, MSE, MAE etc..)	20	20

Submission:

- Submit the files with code, data set, and PPT with the explanation.
- You must do a class presentation with all team members participating; the camera must be switched on duringthe presentation.
- Submit the self-assessment along with the above-mentioned files.

Important : No plagiarism; please implement your idea and submit your work. Your work will be checked for plagiarism.

NOTE : Extra credit for the class participation (Q&A) – 5 points.