**CSE 578 DATA VISUALIZATION -SUMMER 2020**

**COURSE PROJECT**

**PROGRESS REPORT**

**Date: 16th June,2020**

**Team Members:**

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**Project Description:**

Creating data visualization application to predict income of individuals for the college who suggests the degree program for the individuals.

**Tools used:**

|  |  |
| --- | --- |
| Software Revision | GitHub |
| Software/Library used | Jupyter, Python (Scikit-learn, NumPy), Pandas, matplotlib, seaborn |
| Communication | Zoom, Slack,gmail |

**Project Progress:**

Preliminary work of analyzing the given data, generating data graph, and reporting the findings is completed. Did Research on the visualization models especially on prediction model. Data was preprocessed to eliminate noise, redundant values. Statistical graphs like Stacked Bar Graph, Histogram, Box plot was generated to report the findings. Once, preliminary analyses is completed, Prediction model like Decision Tree classifier, Logistic Regression were used to identify the accuracy of Income of each individual.

We both did Fundamental analyses of given data like discovering the correlation between the values from the statistical graph generated. Yumeng focused on developing Income prediction model and described the accuracy of Income from the graph. Pavithra substantiated along with Yumeng’s work, analyzed the data from the generated graph and reported its finding, reviewing, and debugging the code and documenting the software reports.

**Individual Contributions:**

|  |  |
| --- | --- |
| Team Members | Work done |
| Yumeng Ma | 🡪Data Analyses of given data  🡪Python code development to generated statistical graphs  🡪Describing findings from Graph.  🡪 Developed Income Prediction Model (Test and Train Data)  🡪Analyzing accuracy rate from Prediction Model |
| Pavithra Devi | 🡪Data Analyses of given data  🡪Developing python code and generating visual graphs  🡪Describing the Findings from Graph  🡪Debugging code and reviewing it.  🡪Documentation of software reports. |

**Milestones Ahead**

* Implementing Prediction Models like Logistic Regression, Decision Tree Classifier.
* Generating Graph on Prediction Models(Train and Test Data) with its Success/error rate.
* Preparation of Course Project Report.

**Challenges:**

Analyzing and Implementing the Accuracy value from each of Prediction Models (Decision Tree classifier and Logistic Regression).