**1. Student bi-weekly performance summary**

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| Adm. No. | Name | No. of hours present | Progress1 | Remarks |
| 1. 2007476 | Johnnie | 8 | B | Distracted by other modules |
| 2. 2112790 | Jayden | 8 | A | On schedule |
| 3. 2112802 | Wee Loon | 8 | A | On schedule |

1 State whether: A=On Schedule B=Ahead Schedule for no. of days C=Behind Schedule for no. of days

**2. Weekly Scrum**

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| Week No: 16-17 Date: 30/2/2023 | |
| Member Name 1: | **Johnnie (Data Analyst)** |
| Last week’s Progress | * Feature Selection: Applied RFECV using f1-score as metrics to select useful features (without categorical columns) * Feature Selection: Categorical columns are one hot encoded and added back into selected features from RFECV to compare result. * Unsupervised Learning: Trained an unsupervised learning model and interpreted the clusters. |
| This week deliverables | * UI Graphs: Decided which graph would be useful and decided how to implement the graph into Tkinker. * Backend Graphs: Implemented the logic to display different graphs and statistic after prediction. |
| Obstacles | * Can be a little subjective to decide which graph and information to display user. |
| Member Name 2: | **Jayden (UI Designer)** |
| Last week’s Progress | * Sampling: Implemented multiple oversampling methods and did under sampling. * Sampling Analysis: Analysed objectively and compared different sampling methods against no sampling and eventually pick SMOTE oversampling. * Outlier Removal Comparisons: Trained and tested models on the three different datasets obtained from different outlier removal methods. |
| This week deliverables | * UI Design: Designed the layout of our GUI. * UI Implementation: Implemented the design, input boxes and buttons to the GUI. * Graph Description: Update UI with description, which cluster the prediction belongs to and its implication. |
| Obstacles | * Design is subjective. Hence, must consult and justify certain features of the GUI |
| Member Name 3: | **Wee Loon (Backend Engineering)** |
| Last week’s Progress | * Model Comparison: Compared different models on the dataset and selected the best model. * Model Improvement: Tuned the hyperparameters of the selected model to improve performance. |
| This week deliverables | * Application Backend: Integrated classifier into the backend for prediction to be made and made functions to do predictions. * Application Backend: Integrated unsupervised learning models into the backend and made sure it works. * Application Backend: Develop file input function for batch prediction. |
| Obstacles | * User input has to be in the correct format and meets the requirements of the machine learning models. |