**Student Bi-Weekly Performance Review**

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| Adm. No. | Name | No. of hours present | Progress1 | Remarks |
| 1. 2100775 | Soh Hong Yu | 8 | A | * Group Leader |
| 2. 2102719 | Rohan Ravishankar | 8 | A | * Nil |
| 3. 2136123 | Wong Tze Huai | 8 | A | * Nil |

**Bi-Weekly Scrum Report**

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| Week No: 12-13 Date:2/01/2023 - 13/01/2023 | |
| Member Name 1: | **Soh Hong Yu** |
| Last week’s Progress | * Started working on the GUI * Researched different ways to improve user interface and experience  1. Using contrast to manage focus 2. Using colour to manage attention 3. Asthetic to make users more attracted to the website  * Start researching on how to deploy our website to the internet using different web hosting applications  1. Render 2. AWS 3. Heroku 4. Vercel 5. Netlify |
| This week deliverables | * Decide on the base layout of the GUI and the GUI’s asthetic * Try out render by deploying a dummy website to test out Render’s caopabilities and ensure that it is suitable to depploy our website on Render |
| Obstacles | * Limited time due to planning various SP events (SPOH, ARG & SP FOC) * Took some time to understand how to use Render |
| Member Name 2: | **Wong Tze Huai** |
| Last week’s Progress | * Revisted the EDA visualisations to understand which models to use for training  1. Looked at the distribution of cluster in the pair plot  * Started on background research for differnet models  1. DecisionTreeClassifier 2. RandomForestClassifier 3. Linear Regression 4. XGBoost  * Researched the machine learning workflow  1. Retrieve data 2. Clean data 3. Prepare data 4. Develop and train model 5. Evaluate model 6. Choose best model |
| This week deliverables | * Completed research on last week’s models and researched more on other models  1. KNN 2. Naive Bayes 3. SVM  * Researched the different parameters for each models to further expand how to use them optimally * Completed revising past EDA visualisations |
| Obstacles | * Time constraints due to other assignments and family matters * SVM takes too long to load, thus we were not able to test the model out |
| Member Name 3: | **Rohan Ravishankar** |
| Last week’s Progress | * Started on Advacned Data Pre-Processing  1. Feature Importance 2. Correlation Plot 3. Pair Plot 4. Feature Engineering 5. G-Force 6. Feature Selection  * Researched on how to handle data imbalance  1. Data-level methods 2. Algorithm-level methods 3. Hybrid methods  * Experimented with handling extreme outliers  1. Isolation Forest 2. One-Class SVM   3. Cluster-based Local Outlier Factor |
| This week deliverables | * Scrum Report Week 12-13 * Completed Feature Importance  1. Correlation Plot 2. Pair Plot  * Decide which columns to drop for Feture Selection * Start on Data Aggregation * See how to improve on CA1 Report and explanation of our Tableau Dashboards |
| Obstacles | * Time limit due to IVP Competition * Unsure on how to handle data imblanced properly as yet to go through in class * Time taken to run pairplots and other cells in Jupyter Notebook is very long |