**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:16-17 Date: 16/01/2023 - 27/01/2023 | |
| Member Name 1: | **Soh Hong Yu** |
| Last week’s Progress | * Deployed website onto render * Finalise the GUI  1. What car and map we are going to use when showing the loaction of the car 2. How are we going to display whether the driver is being safe or dangerous in a easy and fast manner  * Connected finalised model with GUI and HTMl to develop a website that can provide easy and fast predictions |
| This week deliverables | * Started on the PAI Report  1. GUI 2. Website Design and Deployment |
| Obstacles | * Due to the last-minute clarification on the Graphical User Interface, we had less time to change the GUI to meet the requirement |
| Member Name 2: | **Wong Tze Huai** |
| Last week’s Progress | * Improvements on the Pipeline. Some steps he did was to:  1. Automate tasks that are repetitive in nature to reduce the chances of manual errors and increase efficiency. 2. Regularly monitor the performance of the pipeline to quickly identify and resolve any issues. 3. Utilize version control systems like Git to keep track of changes and make collaboration with others easier.  * Building the model development & comparing Models      1. Every model we built we cross validated them and we take the average of each metric and logged down the model performance in mlflow for easy traceability and comparison. 2. From the ‘mean\_test\_f1’ we can see that the KNN Model has the test accuracy of 0.71 and ‘mean\_test\_precision’ of 0.64 which is the best among all the other models so we will be choosing this model to hypertune and get the best model possible. |
| This week deliverables | * To hypertune the KNN model to get the best parameters for predicting on our datasets and to be accurate on whether the driver is dangerous or not * So, we used the RandomClassofierCV to find the best parameters for the KNN Model * The best parameters for the KNN Model are:        * Now, we will compare the models again and see the improvements.      1. As we can see the Tuned KNN has a ‘mean\_test\_f1’ of 0.813 and a ‘mean\_test\_recall’ of 0.976 so it has improved after the hyperparameter tuning |
| Obstacles | * Unsure how to use dask properly so the implementation took long and was done wrongly a few times. * Unsure how to implement dask with Sickit-Learn |
| Member Name 3: | **Rohan Ravishankar** |
| Last week’s Progress | * PAI Project Report  1. Advanced Data Processing  * Data Aggregation * Outlier Detection * Handling Imbalanced Classes * PAI Slides |
| This week deliverables | * Scrum Report Week 16-17 * PAI Projecct Report  1. Streamlined Piperline Development 2. Model Development |
| Obstacles | * Other Modules Assignments * Unsure what to write for the PAI Report |