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

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| Adm. No. | Name | No. of hours present | Progress1 | Remarks |
| 1. 2122883 | Chia Wee Leong | 20 | A | Ahead schedule by 3 days as team members had to wait for the ETL pipeline to be done before they can begin. |
| 2. 2122924 | Ryan Ueda Teo Shao Ming | 20 | A | - |
| 3. 2123165 | Nimmagadda Vineesh | 20 | A | - |

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: 3-4 Date: 27/1/2023 | |
| Member Name 1: | **Wee Leong** |
| Last week’s Progress | * Created SQL to Python pipeline * Combined rows from safety, driver and sensor into one dataframe * Aggregated records with duplicated driverID based on mean, median, min and max values. |
| This and next week’s deliverables | * Try to handle unbalanced data with SMOTE * Work on home page and real-time mode on Tkinter |
| Obstacles | * There were many methods to handle class imbalance, with various use cases. * It was extremely challenging to make the scrollbar work in Tkinter. |
| Member Name 2: | **Ryan** |
| Last week’s Progress | * Performed EDA on combined data obtained from Wee Leong * Performed feature importance analysis using RandomForestClassifier * Performed outlier detection using One-Class SVM |
| This and next week’s deliverables | * Try to handle unbalanced data with Random Under Sampling and Random Over Sampling * Find the optimal number of principal components for best classifier model * Find the best hyperparameter using GridSearchCV |
| Obstacles | * There were many methods to handle class imbalance, with various use cases. * Hyperparameter tuning took a long time, as there were many hyperparameters to tune. |
| Member Name 3: | **Vineesh** |
| Last week’s Progress | * Performed PCA on reduced data obtained through feature importance * Performed outlier detection using Isolation Forest. * Performed outlier detection using One-Class SVM |
| This and next week’s deliverables | * Find optimal classification model * Work on Batch Mode for Tkinter |
| Obstacles | * There were many methods to handle class imbalance, with various use cases. * It was a challenge to create a table that can utilise the scrollbar, as most code found online did not work. |