**Model Development Phase**

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| Date | 15 March 2024 |
| Team ID | SWTID1720078183 |
| Project Title | Predictive Modeling for Fleet Fuel Management using Machine Learning |
| Maximum Marks | 6 Marks |

**Model Selection Report**

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

**Model Selection Report:**

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| **Model** | **Description** | **Hyperparameters** | **Performance Metric (e.g., Accuracy, F1 Score)** |
| Random Forest Regressor | Ensemble learning model using multiple decision trees | learning\_rate, max\_bins, max\_depth, max\_iter, min\_samples\_leaf | Accuracy = 60 |
| HistGradientBoosting Regressor | Boosting algorithm using histograms of gradient boosting | learning\_rate, max\_bins, max\_depth, max\_iter, min\_samples\_leaf | Accuracy = 60 |