Model Development Phase Template

Date	20 JULY 2024
Team ID	SWTID1720014187
Project Title	Traffic Telligence: Advanced Traffic Volume Estimation With Machine
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:

Model	Description	Hyperparameters	Performance Metric R2_score
Linear Regressor	A linear regressor is a statistical method used to model the relationship between a dependent variable and one or more independent variables by fitting a linear equation to observed data.	--	13%
Decision Tree Regressor	A Decision Tree Regressor is a machine learning model that predicts the value of a target variable by learning decision rules from features, recursively splitting the data into subsets based on feature values.	--	71%

Random Forest Regressor	A Random Forest Regressor is an ensemble learning method that uses multiple decision trees to improve the accuracy and robustness of predictions by averaging the outputs of individual trees.	...	84%
SVR	Support Vector Regression (SVR) is a machine learning model that uses the principles of support vector machines to predict continuous values by finding the best-fit hyperplane within a specified margin of tolerance.	---	0%