Model Development Phase Template

Date	20 July 2024
Team ID	SWTID1720110595
Project Title	Ecommerce Shipping Prediction 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:

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)
Logistic Regression	A linear model for binary classification	random_state=1234	Accuracy: 69.08, F1 Score: 64.20
XGBoost	Extreme Gradient Boosting for binary classification	random_state=1234	Accuracy: 72.54, F1 Score: 70.19
Logistic Regression CV	Logistic Regression with cross-validation	random_state=1234	Accuracy: 70.37, F1 Score: 63.95

Ridge Classifier	Linear classifier using Ridge regression	random_state=1234	Accuracy: 71.21, F1 Score: 65.73
KNN	K-Nearest Neighbors for classification	n_neighbors=5	Accuracy: 71.33, F1 Score: 67.61
Random Forest	Ensemble method using multiple decision trees	random_state=1234	Accuracy: 73.99, F1 Score: 69.55
SVM classifier	Support Vector Machine for classification	random_state=1234	Accuracy: 73.53, F1 Score: 64.52