



Model Development Phase Template

Date	10 July 2024	
Team ID	SWTID1720097765	
Project Title	Ecommerce Shipping Prediction	
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)
Random Forest	Ensemble of decision trees ; robust, handles complex relationships, reduces overfitting	-	Accuracy Score = 65.3%
Ridge Classifier	Ridge classification algorithm relies on subspace assumption which states that samples of a specific class lie on a linear subspace and a new test sample to a category will be described as a linear combination of training samples of the relevant class	-	Accuracy Score = 64.9%
KNN	Classifies based on nearest neighbors; adapts well to data patterns.	-	Accuracy Score = 64%
XG Boosting	XG boosting with trees; optimizes predictive performance, handles complex relationships	-	Accuracy Score = 64.6%





Logistic Regression CV	Simple tree structure; interpretable, captures non-linear relationships	-	Accuracy Score = 64.1%
Logistic Regression	It predict the output of categorical dependent variables	-	Accuracy Score = 64%