Model Development Phase Template

Date	11 July 2024
Team ID	SWTID1720369851
Project Title	Ecommerce Shipping Prediction
Maximum Marks	4 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

Paste the screenshot of the model training code

Model Validation and Evaluation Report:

Model	Classification Report	Accuracy	Confusion Matrix
Logistic Regression	F1 Score: 67.75 Precision Score: 69.399 Recall Score : 66.176 AUC Score : 62.328	Accuracy_Score: 63.0 %	Confusion Matrix : [[531 377] [437 855]]
Decision Tree Classifier	F1 Score: 69.444 Precision Score: 69.231 Recall Score : 69.659 AUC Score : 62.803	Accuracy_Score: 64.0 %	Confusion Matrix : [[508 400] [392 900]]
Random Forest Classifier	F1 Score: 69.487 Precision Score: 74.016 Recall Score : 65.48 AUC Score : 66.385	Accuracy_Score: 66.227 %	Confusion Matrix : [[611 297] [446 846]]

SVM	F1 Score: 70.523 Precision Score: 72.24 Recall Score : 68.885 AUC Score : 65.61	Accuracy_Score: 66.182 %	Confusion Matrix : [[566 342] [402 890]]
XGBoost	F1 Score: 68.466 Precision Score: 71.369 Recall Score : 65.789 AUC Score : 64.117	Accuracy_Score: 64.409 %	Confusion Matrix : [[567 341] [442 850]]
KNN	F1 Score: 69.885 Precision Score: 71.498 Recall Score : 68.344 AUC Score : 64.789	Accuracy_Score: 65.409 %	Confusion Matrix : [[556 352] [409 883]]