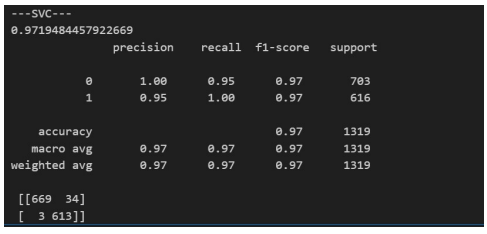
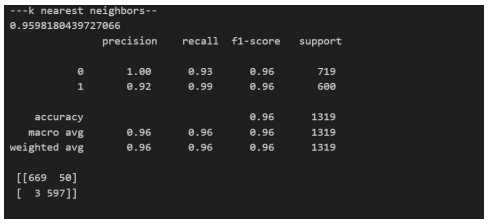
Model Development Phase Template

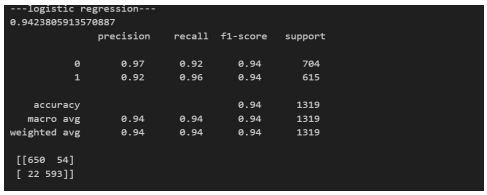
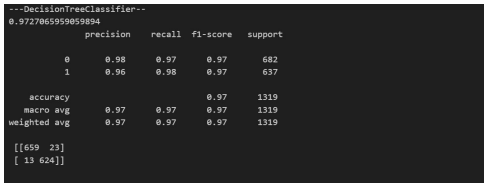
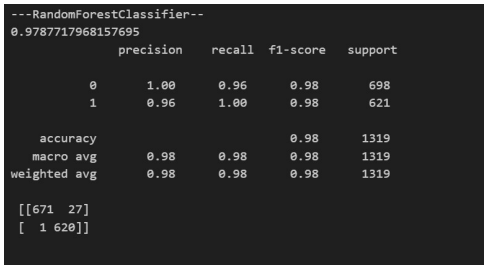
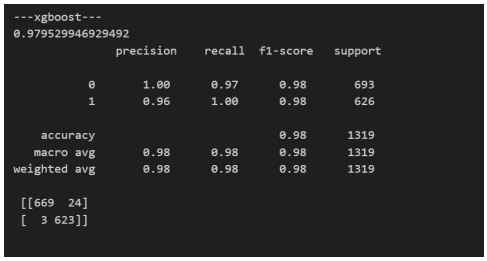
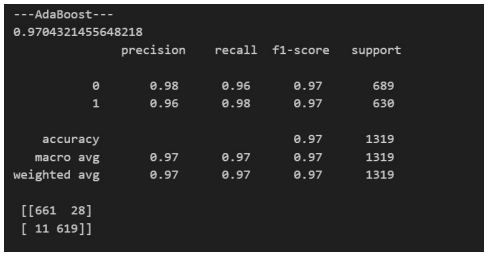
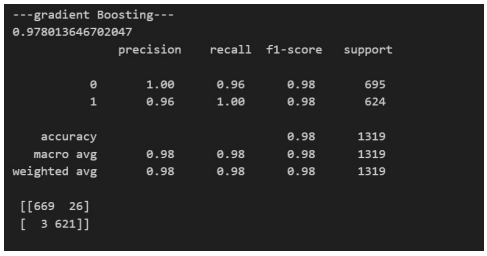
Date	15 March 2024
Team ID	SWTID1720161281
Project Title	Ecommerce Shipping Prediction Using Machine Learning
Maximum Marks	6 Marks

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)
SVM	SVM classifier uses a line to classify between two classes	Kernel: -poly, rbf c: - 10,13 Gamma: -4,5	
KNN	It uses clustering to classify	Algorithm: -auto, ball_tree, kd_tree p: -1,5,10	

Logistic Regression	Binary classification using sigmoid-based probability estimation.	None	
Decision Tree	Hierarchical model for decision-based data classification	None	
Random Forest	Ensemble of decision trees for improved prediction	None	
XG Boost	Gradient-boosted decision trees for enhanced performance	None	
AdaBoost	Adaptive boosting of weak learners for accuracy	None	
Gradient Boost	Boosted gradient-based models for superior accuracy.	None	

Naïve Bayes	Probability-based classifier assuming feature independence.	None