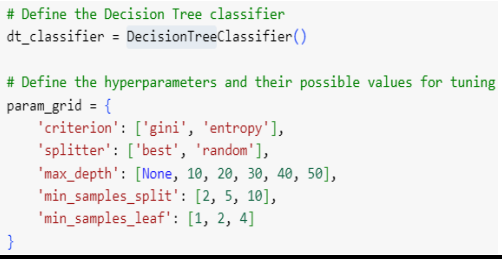
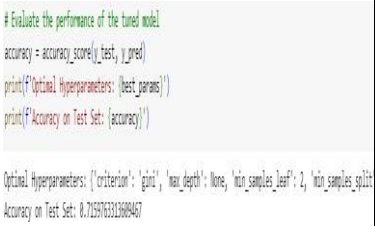
Model Optimization and Tuning Phase Template

Date	15 March 2024
Team ID	SWTID1720452383
Project Title	Ecommerce Shipping Prediction Using Machine
Maximum Marks	10 Marks

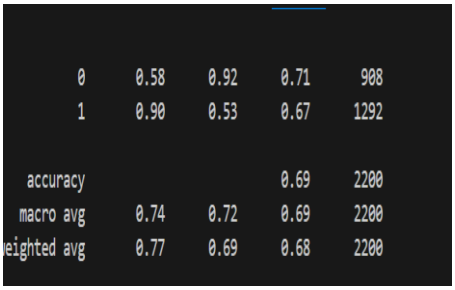
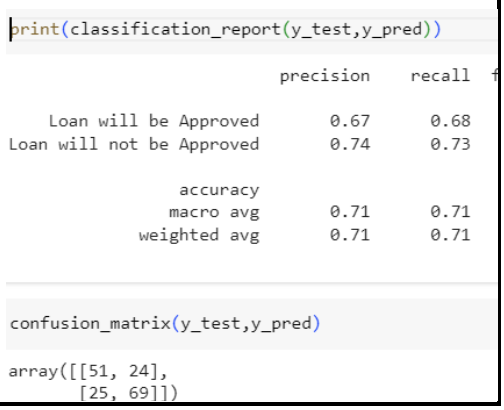
Model Optimization and Tuning Phase

The Model Optimization and Tuning Phase involves refining machine learning models for peak performance. It includes optimized model code, fine-tuning hyperparameters, comparing performance metrics, and justifying the final model selection for enhanced predictive accuracy and efficiency.

Hyperparameter Tuning Documentation (6 Marks):

Model	Tuned Hyperparameters	Optimal Values
Random forest classifire		
Decision Tree		
...	...	...

Performance Metrics Comparison Report (2 Marks):

Model	Optimized Metric
Random Forest classifier	
Decision Tree	

Final Model Selection Justification (2 Marks):

Final Model	Reasoning
Randomforest classifier	The random foest classifier was choosen as the final model as this model provides us with a higher percentage of accuracy with a highly optimizd code and better runtime