

Model Development Phase Template

Date	15 March 2024
Team ID	SWTID1720452383
Project Title	Ecommerce Shipping Prediction Using Machine
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 classifier	Random Forest enhances shipping time predictions by combining multiple decision trees to improve accuracy and reduce overfitting. It handles diverse variables like historical shipping data, weather, and traffic, capturing complex interactions for reliable predictions.	-	Accuracy Score=82%
Grid Search CV	Used for hyperparameter tuning to find the best combination of parameters (max_depth, min_samples lea	-	Accuracy Score=77%

	<p>f, min_samples_split, and criterion) for the Random Forest Classifier. Performs cross- validation to evaluate the performance of different hyperparameter combinations and selects the best set of parameters based on the scoring metric (accuracy in this case).</p>		
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