



ModelDevelopmentPhase Template

Date	10-july-2024	
TeamID	739969	
ProjectTitle	WalmartSalesAnalysisForRetailIndustrywith MachineLearning	
MaximumMarks	6Marks	

ModelSelectionReport

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1S core. This comprehensive report will provide insights into the chosen models and their effectiveness.

Model	Description	Hyperparameters	PerformanceMetric (e.g., Accuracy, F1 Score)
RandomForest	Ensemble of decision trees; robust, handles complex relationships, reduces overfitting, and provides feature importance for Walmarts ales analysis	-	95%
DecisionTree	Simpletreestructure; interpretable, captures non-linear relationships, suitable forinitialinsights into Walmart sales patterns.	-	93%
Xgboost	XGBoost is an advanced machine learning algorithm ideal for Walmart salesanalysisdueto its ability to handle large datasets and complexpatterns. It combines multiple decision trees to predict sales accurately by capturing seasonality, trends.	-	93%