



Model Optimization and Tuning Phase Template

Date	15th July 2024
Team ID	739691
Project Title	Sentiment Analysis of Commodity News (Gold)
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	-	-
Decision Tree	-	-
Gradient		
Boosting	-	-
Regressor		

Performance Metrics Comparison Report (2 Marks):

Model	Baseline Metric	Optimized Metric





Random Forest	-	-
Decision Tree	-	-
Gradient Boosting	-	-

Final Model Selection Justification (2 Marks):

Final Model	Reasoning
	Logistic regression is a statistical model used for binary classification
	that predicts the probability of a binary outcome based on one or more
	predictor variables. It uses a logistic function to model the relationship
	between the dependent variable and the independent variables. Logistic
	regression is widely used in various fields for its simplicity, efficiency,
Logistic Regression	and interpretability in predicting categorical outcomes