

Model Optimization and Tuning Phase Template

Date	15 March 2024
Team ID	740001
Project Title	Online Payment Fraud Detection
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
Model 1	Hyperparam1, Hyperparam2, ...	Value1, Value2, ...
Model 2	Hyperparam1, Hyperparam2, ...	Value1, Value2, ...
...

Performance Metrics Comparison Report (2 Marks):

Model	Baseline Metric	Optimized Metric
Model 1	Baseline value	Optimized value

Model 2	Baseline value	Optimized value
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Final Model Selection Justification (2 Marks):

Final Model	Reasoning
Model 1 (or other)	Explanation of why this model was chosen as the final optimized model