

## Project Development Phase

### Model Performance Test

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Team ID	LTVIP2026TMIDS47032
Project Title	Flight finder: navigating your air travel options

#### Model Performance Testing

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values
1	Metrics	<div>Classification Model:</div> <div>Confusion Matrix: ✓</div> <div>Accuracy Score: 87%</div> <div>Classification Report:</div> <div>Precision: 0.85, Recall: 0.86, F1-Score: 0.85</div> <div>(Used for fraud detection in booking attempts)</div> <div>Regression Model:</div> <div>MAE: 185.7</div> <div>MSE: 41289.5</div> <div>RMSE: 203.2</div> <div>R<sup>2</sup> Score: 0.78</div> <div>(Used for predicting optimal booking prices)</div>
2	Tune the Model	<div>Hyperparameter Tuning:</div> <div>GridSearchCV on max_depth, n_estimators</div> <div>Validation Method: K-Fold</div> <div>Cross Validation (k=5)</div>