

## 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	<p>Classification Model: Confusion Matrix: ✓ Accuracy Score: 87% Classification Report: Precision: 0.85, Recall: 0.86, F1-Score: 0.85  (Used for fraud detection in booking attempts)</p> <p>Regression Model: MAE: 185.7 MSE: 41289.5 RMSE: 203.2 R<sup>2</sup> Score: 0.78  (Used for predicting optimal booking prices)</p>
2	Tune the Model	Hyperparameter Tuning: GridSearchCV on max_depth, n_estimators Validation Method: K-Fold Cross Validation (k=5)