Gmail

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Internship Project Submission Form
1 message

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Here's what was received.

Internship Project Submission Form

Project Submission Form. Project Teams need to submit only one submission per project.

Email *

nvnaveenkannaceo@gmail.com

Project Team ID *

PTID-CDS-SEP-24-2087

Project ID *

PRCP-1025

Project Name *

Flight Fare Prediction

Project Start Date (dd/mm/yy) *

7/10/2024

Project End Date (dd/mm/yy) *

21/10/2024

Project files (only ipython notebook file & related documents) *
Upload up to 5 files.

Submitted files

| W | Challenges Faced Report - Naveen Kanna.N.docx |

| W | Model Comparison Report - Naveen Kanna.N.docx |

| 📄 | PRCP-1025-FlightPricePrediction - Naveen Kanna.N.ipynb |

Project Analysis *

1.Objective: To develop a predictive model for airline ticket prices using a dataset of flight details.
2.Data Exploration:
Explored data types, distribution, and outliers to gain insights into feature relevance.
Identified key predictors including airline type, departure and arrival locations, duration, stops, and travel time.
3.Feature Engineering:
Processed categorical variables (airline, source, and destination) using encoding techniques.
Extracted date-related features from departure/arrival times for more detailed analysis.
4.Data Preprocessing:
Handled missing values and standardized numerical features.
Partitioned the dataset into training and testing sets.
5.Model Selection:

Implemented multiple models, including Linear Regression, Decision Trees, and Ensemble methods (Random Forest and Gradient Boosting).
Hyperparameter tuning applied for optimal performance.
6.Evaluation Metrics:
Models evaluated using MAE, MSE, and R² score to ensure accuracy and reliability.
7.Challenges:
Addressed challenges like data imbalance, multicollinearity, and high cardinality in categorical features.

Project Video

No files submitted

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