Gmail

Naveen Kanna.N <nvnaveenkannaceo@gmail.com>

Internship Project Submission Form

2 messages

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To: nvnaveenkannaceo@gmail.com

Thanks for filling out Internship Project Submission Form

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

- Challenges Faced Report - Naveen Kanna.N.docx
- 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 R^2 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

Other Comments

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Email *

nvnaveenkannaceo@gmail.com

Project Team ID *

PTID-CDS-SEP-24-2087

Project ID *

PRCP-1025

Project Name *

JohnsHopkinsCovid19 Prediction

Project Start Date (dd/mm/yy) *

22/10/2024

Project End Date (dd/mm/yy) *

29/10/2024

Project files (only ipython notebook file & related documents) *

Upload up to 5 files.

Submitted files

Model Comparison Report - Naveen Kanna.N.docx

PRCP-1023-JohnsHopkinsCovid19 - Naveen Kanna.N.ipynb

Report on Challenges Faced - Naveen Kanna.N.docx

Project Analysis *

1.Objective:
Build a predictive model for COVID-19 cases and deaths using historical data from Johns Hopkins University.
2.Data Exploration:
Analyzed trends in confirmed cases and deaths across different regions.
Assessed data completeness and identified patterns in time series data.
3.Feature Engineering:
Created lag features to capture trends in case progression.
Extracted seasonal and temporal factors to enrich predictive power.
4.Data Preprocessing:
Handled missing values and normalized data for consistency.
Split data into training and testing sets based on temporal sequence.
5.Modeling and Prediction:
Applied multiple time series models, including ARIMA, Prophet, and LSTM.
Compared models based on forecasting accuracy and computational efficiency.
6.Evaluation Metrics:
Assessed models using RMSE, MAE, and MAPE to validate forecast accuracy.
7.Challenges:
Addressed issues with seasonality, sudden trend shifts, and data sparsity.
8.Conclusion:
Recommended the most reliable model for deployment.
Provided actionable insights for public health decision-making based on trends.

Project Video

No files submitted

Other Comments

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