Ride-Sharing Wars: An Analysis of Uber and Lyft Cab Prices

Context

The purpose of this project is to analyze and visualize the cab prices of ride-sharing services Uber and Lyft.

The project aims to provide insights into the pricing strategies of Uber and Lyft by analyzing data on ride prices and other details for both services in various cities in the United States.

What customer can benefit?

- Cost-effective ride selection
- Better ride planning
- Improved transparency
- More efficient ride-sharing

Content

- Data Collection
- Data Cleaning and Preprocessing
- Exploratory Data Analysis
- Statistical Analysis
- Visualisation

Data Collection

Collect data on ride prices and other details for both Uber and Lyft in various cities across the United States.

We used the dataset from Kaggle.

https://www.kaggle.com/datasets/ravi72munde/uber-lyft-cab-prices?resource=download

Data Cleaning and Preprocessing

This task involves tasks such as removing duplicates, imputing missing values, and converting data types as needed.

Exploratory Data Analysis

This involved visualizing the data in various ways to identify patterns and trends, such as how ride prices vary by time of day or location.

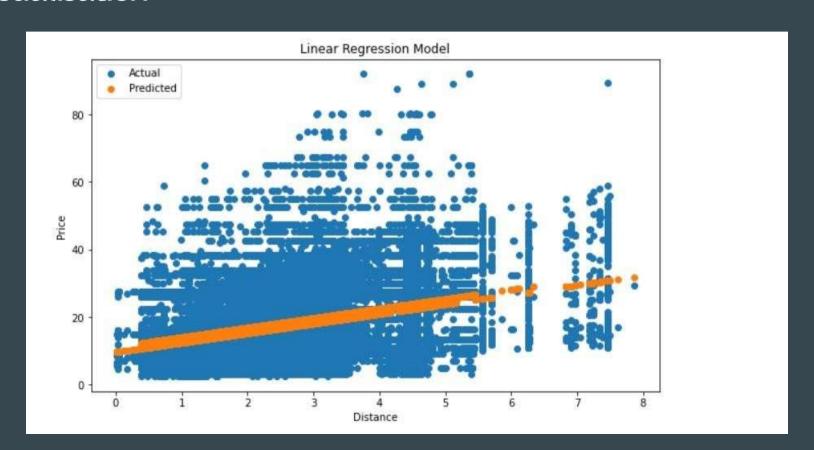
Statistical Analysis

statistical analysis was performed on the data to further investigate the relationships between variables and to test hypotheses

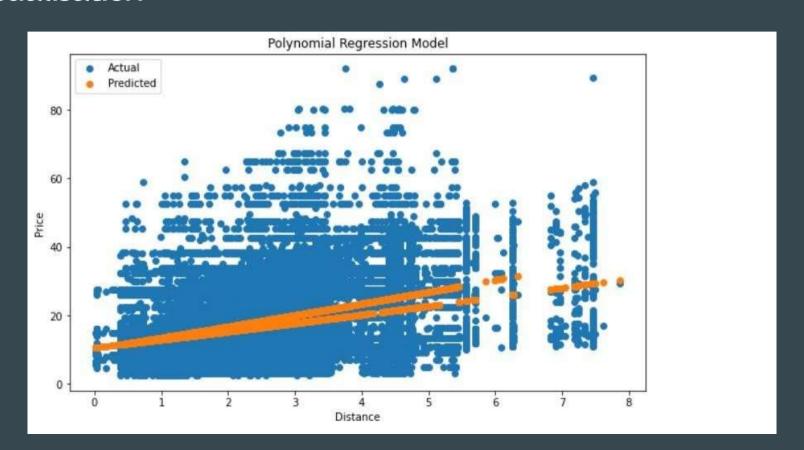
Visualisation

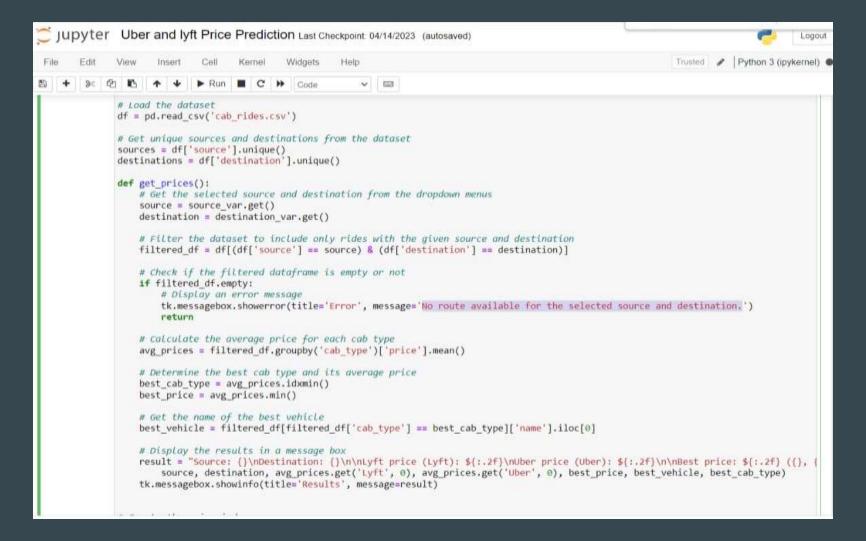


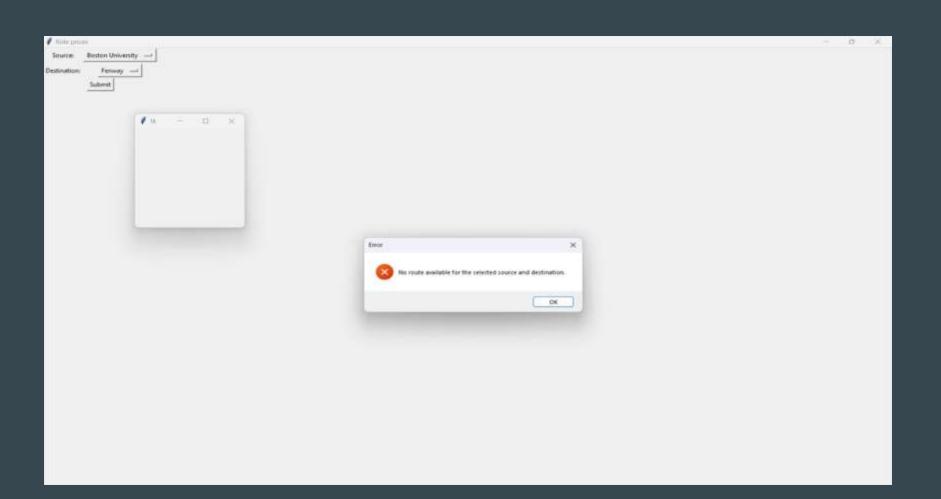
Visualisation



Visualisation







The feature "no route available" helps when the app cannot find a feasible route between the source and destination the user selects. It can happen for various reasons, such as road closures, traffic congestion, or a lack of available drivers.

When this feature is triggered, the app will display an error message informing the user that no route is available for the selected source and destination. The user must then choose an alternative source or destination or wait for the situation to resolve before trying again.

Conclusion

- Pricing strategies prices tend to be higher during peak hours and in areas with high demand.
- Cost-effectiveness by providing real-time information on estimated ride prices, an app that incorporates the insights gained from this project could help users choose the most cost-effective option
- Transparency allows customers to make more informed decisions and have greater trust in the services they are using.
- Efficiency an app that incorporates the insights gained from this project could suggest ride-sharing with other passengers going to similar destinations, which would reduce the cost of the ride for everyone involved.

Thankyou