

Ride-sharing service Data



Cellula

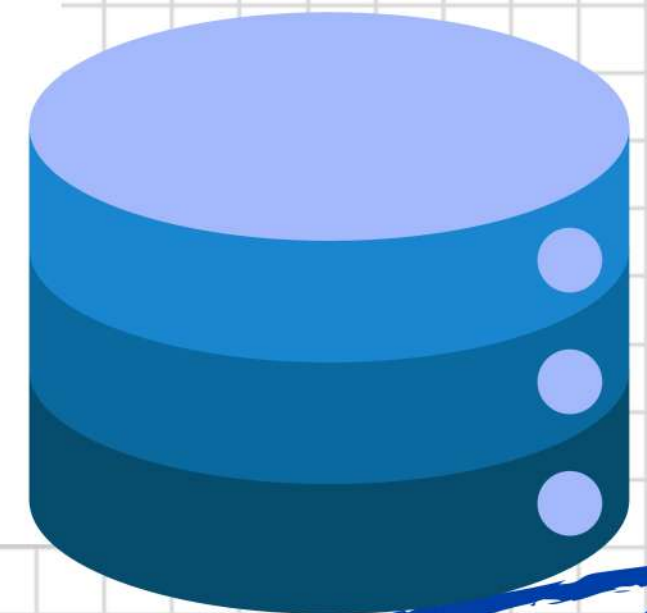


Introduction to Data

To explore the ride-sharing service data and uncover insights related to fare, traffic, weather, and time-based trends.

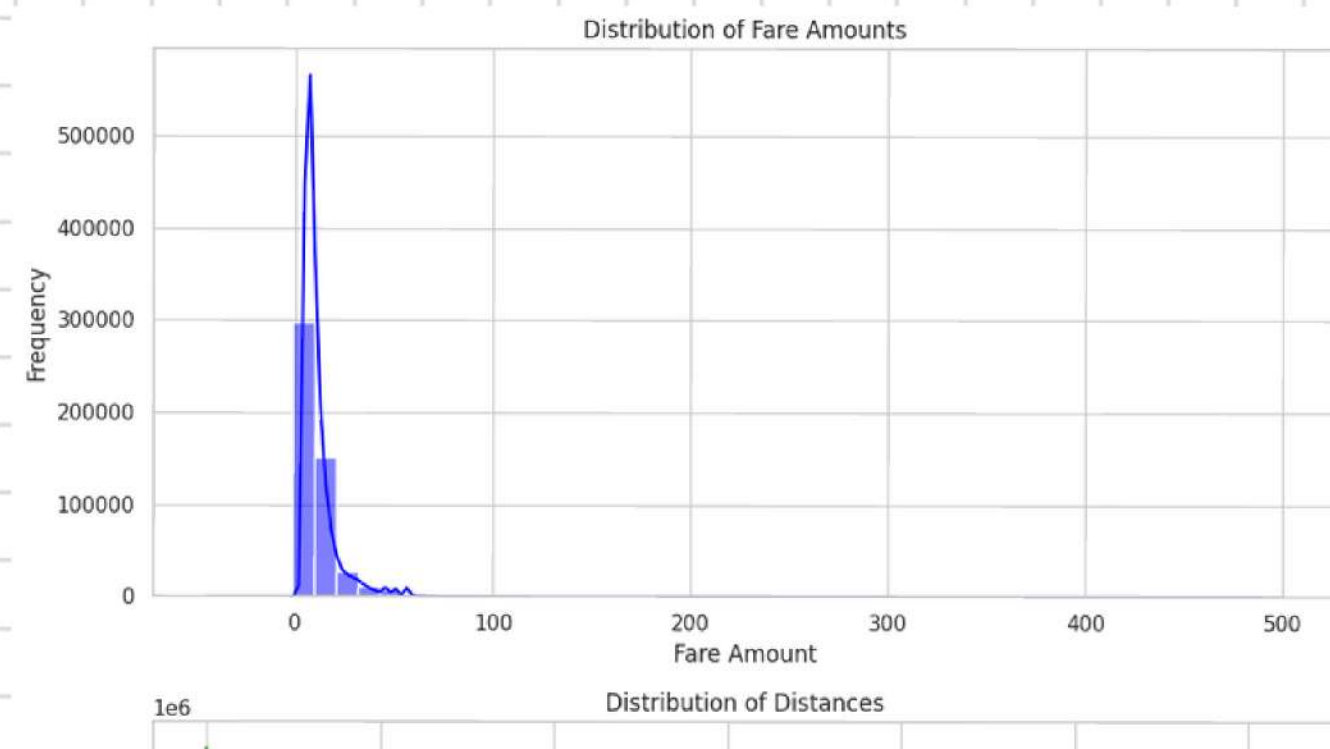


- **500,000+ records** of ride-sharing trips
- Key columns: User ID, Driver Name, Fare Amount, Weather, Traffic Condition, Distance, and time-related features like year, month, weekday.

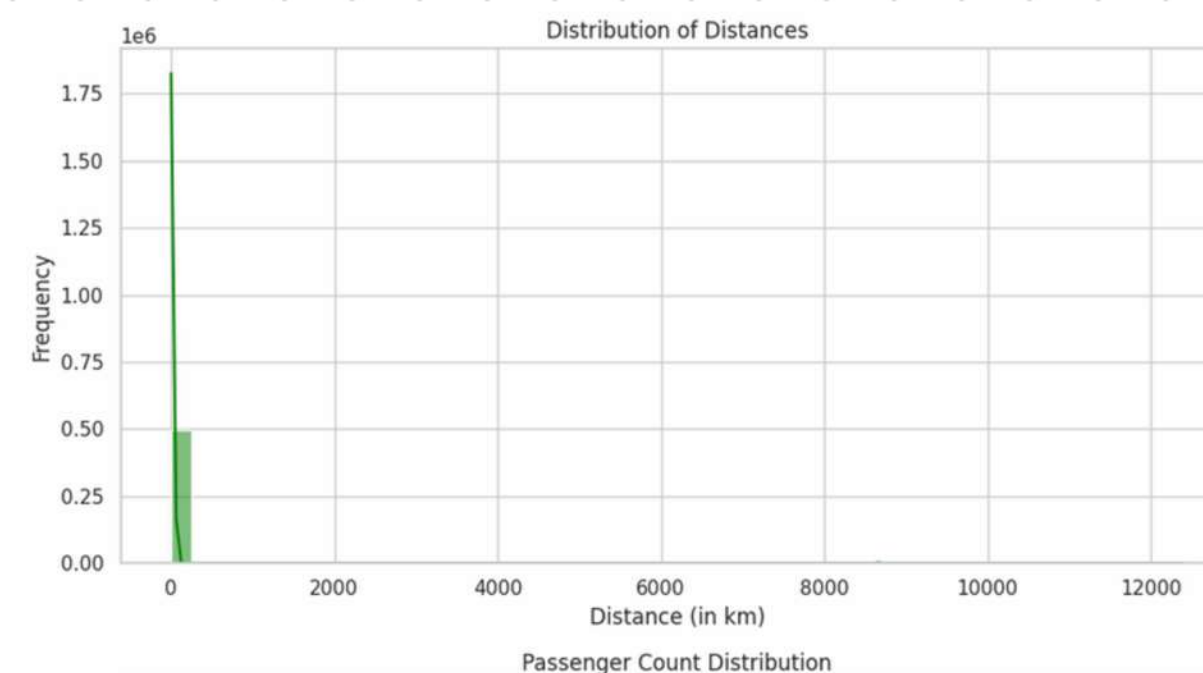


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* Understanding the Fare Distribution



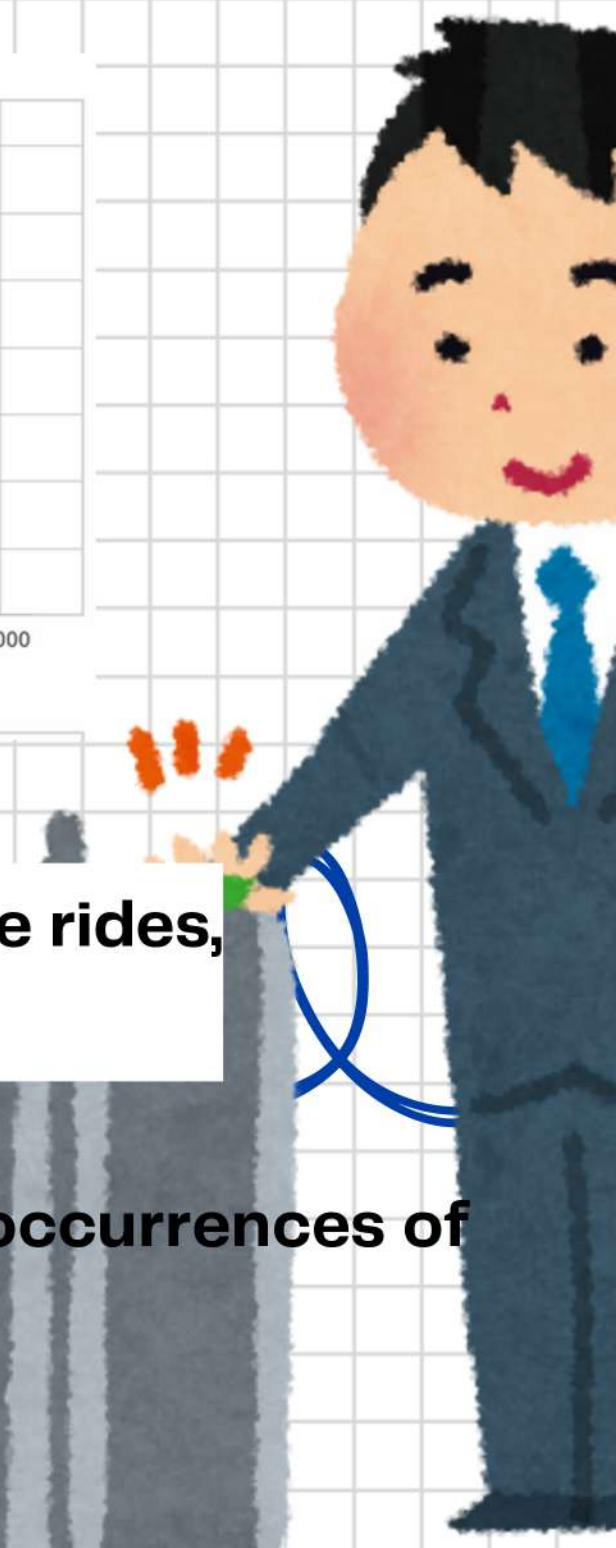
Most fares cluster between \$6 and \$20, with a few outliers at higher amounts.



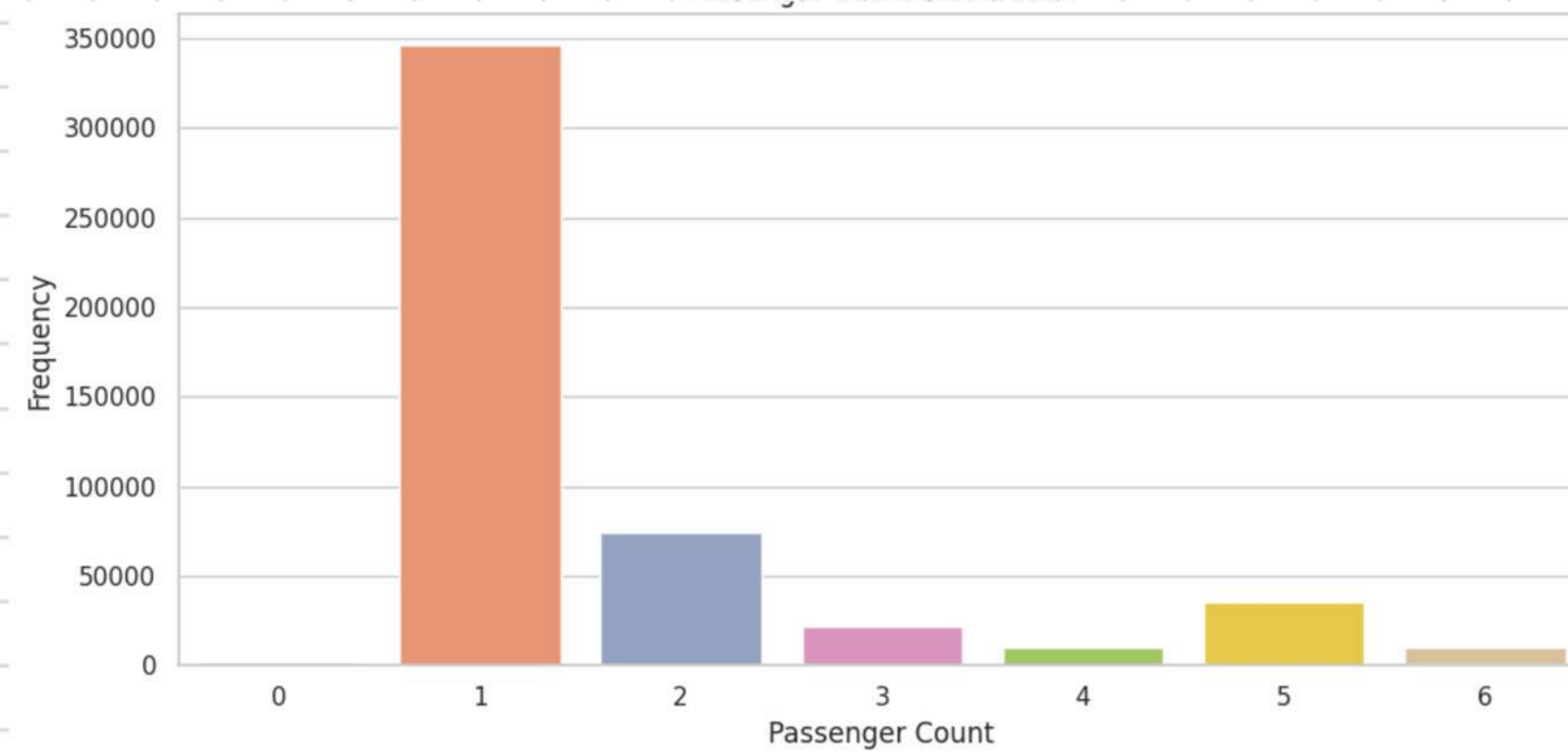
The majority of trips are short-distance rides, reflected in lower fares.

The fare distribution shows that the service is affordable for most customers, with rare occurrences of high fares.

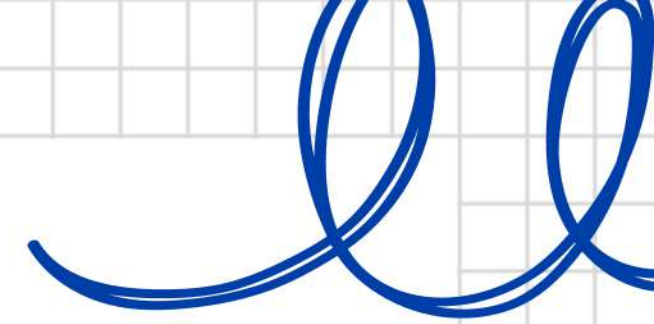
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Passengers Count



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Relationship Between Distance and Fare

Positive correlation

- Longer distances generally result in higher fares.

outliers

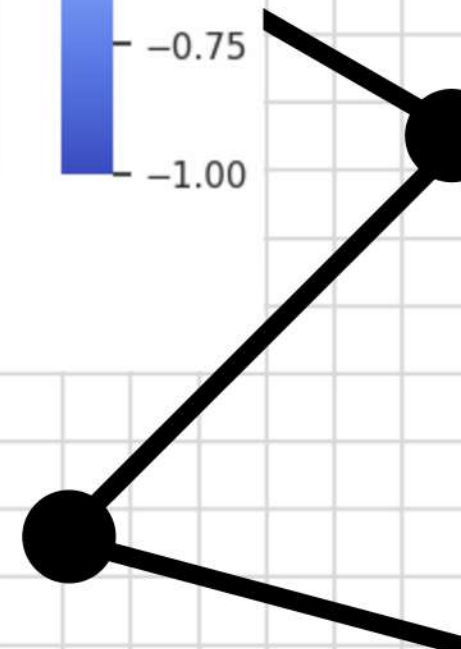
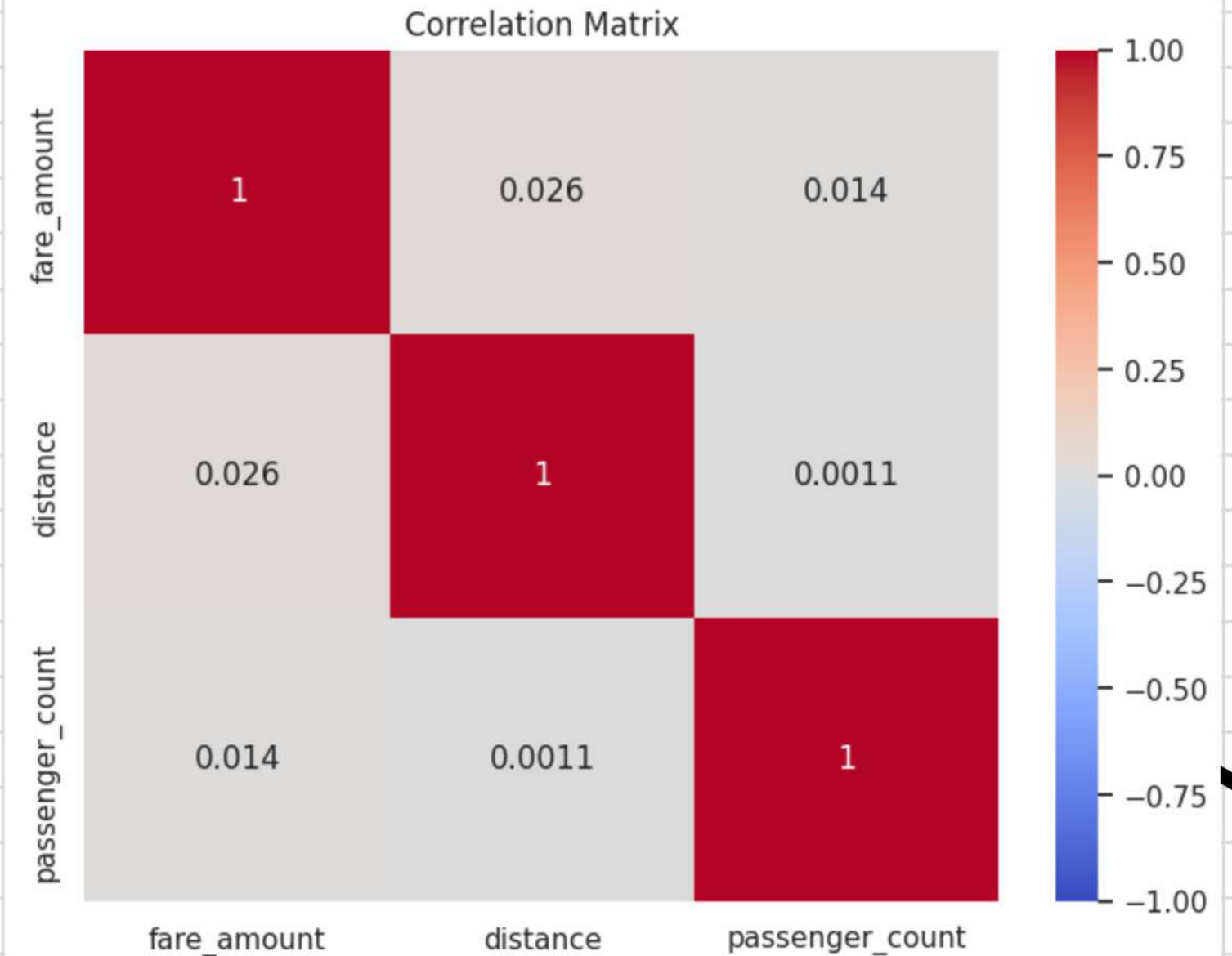
- long trips have low fares, possibly due to promotions or special discounts.

Key Role

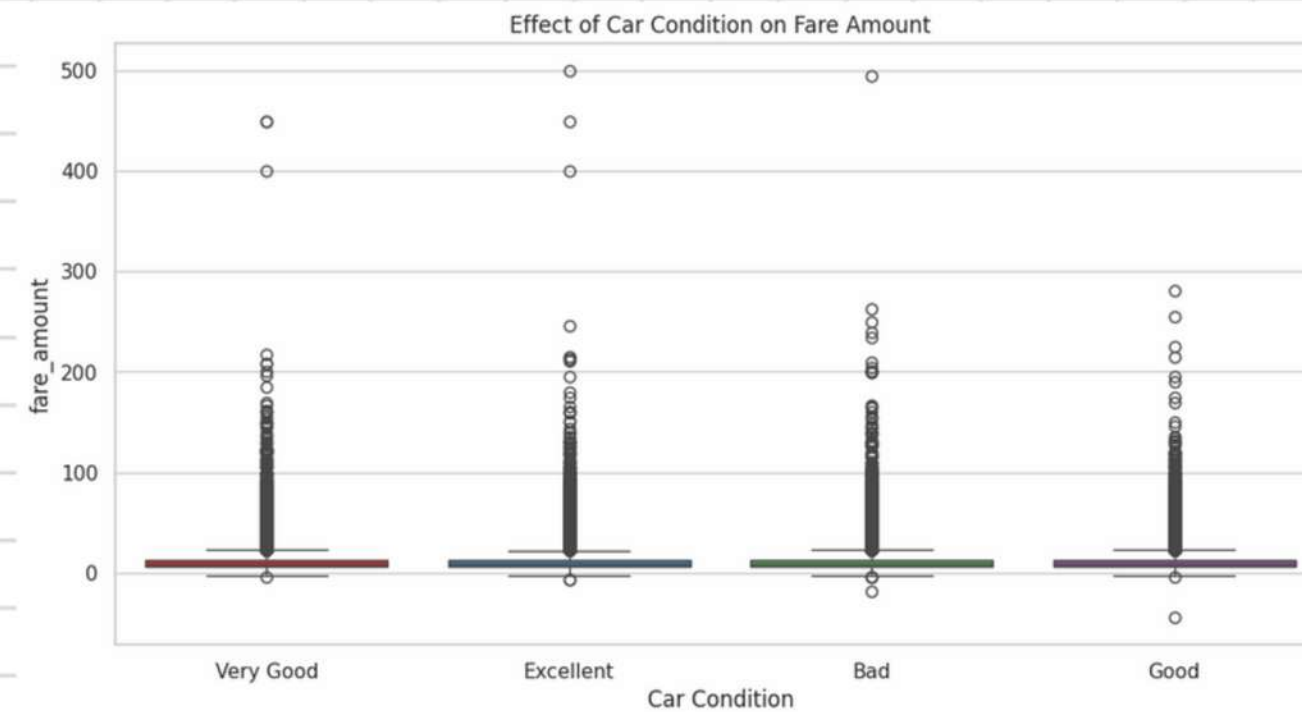
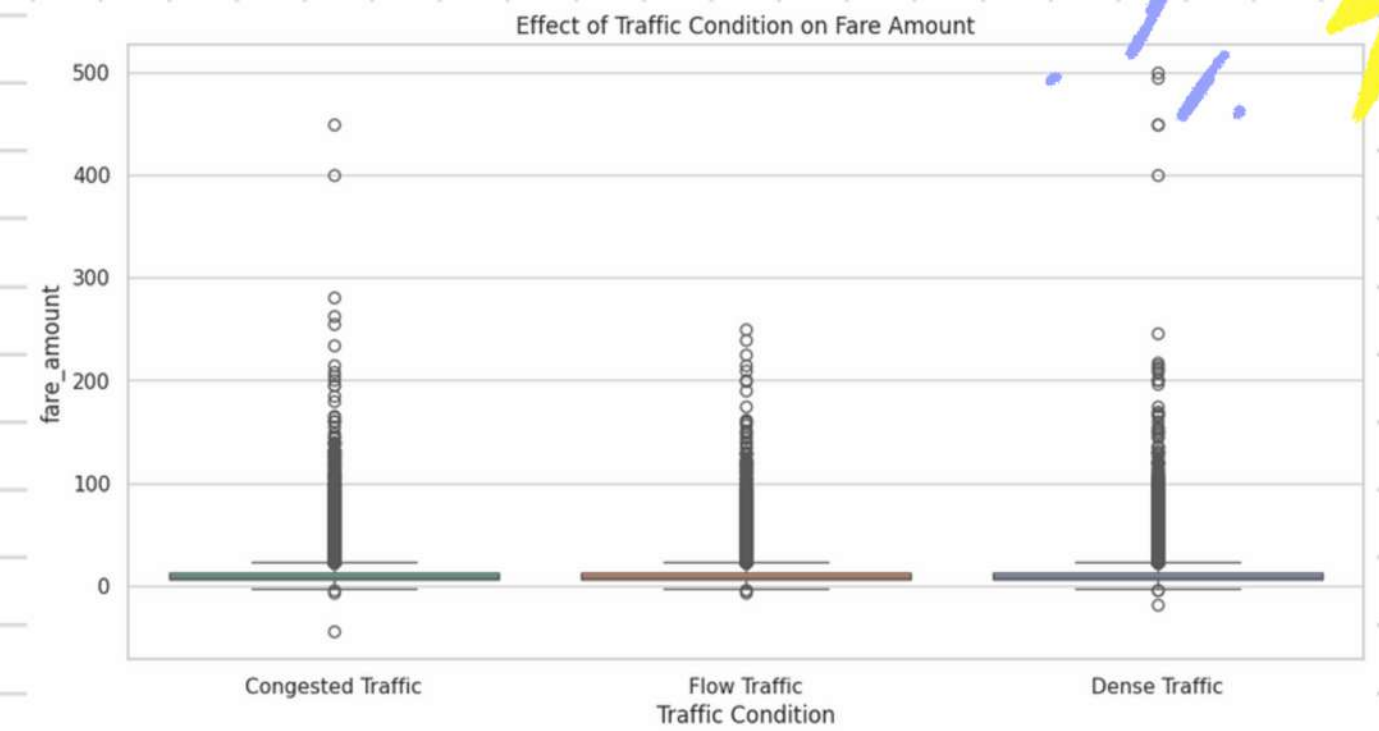
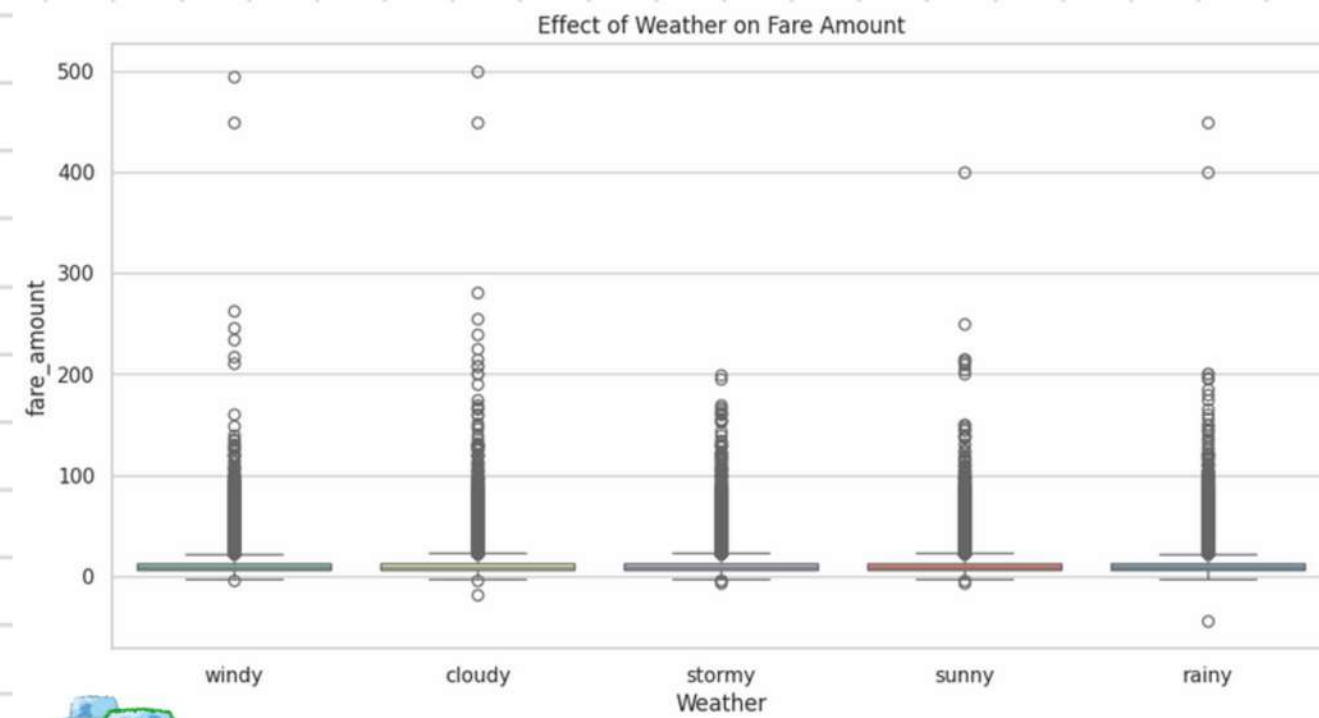
Distance plays a key role in determining the fare, but other factors like traffic and demand likely impact the pricing too.



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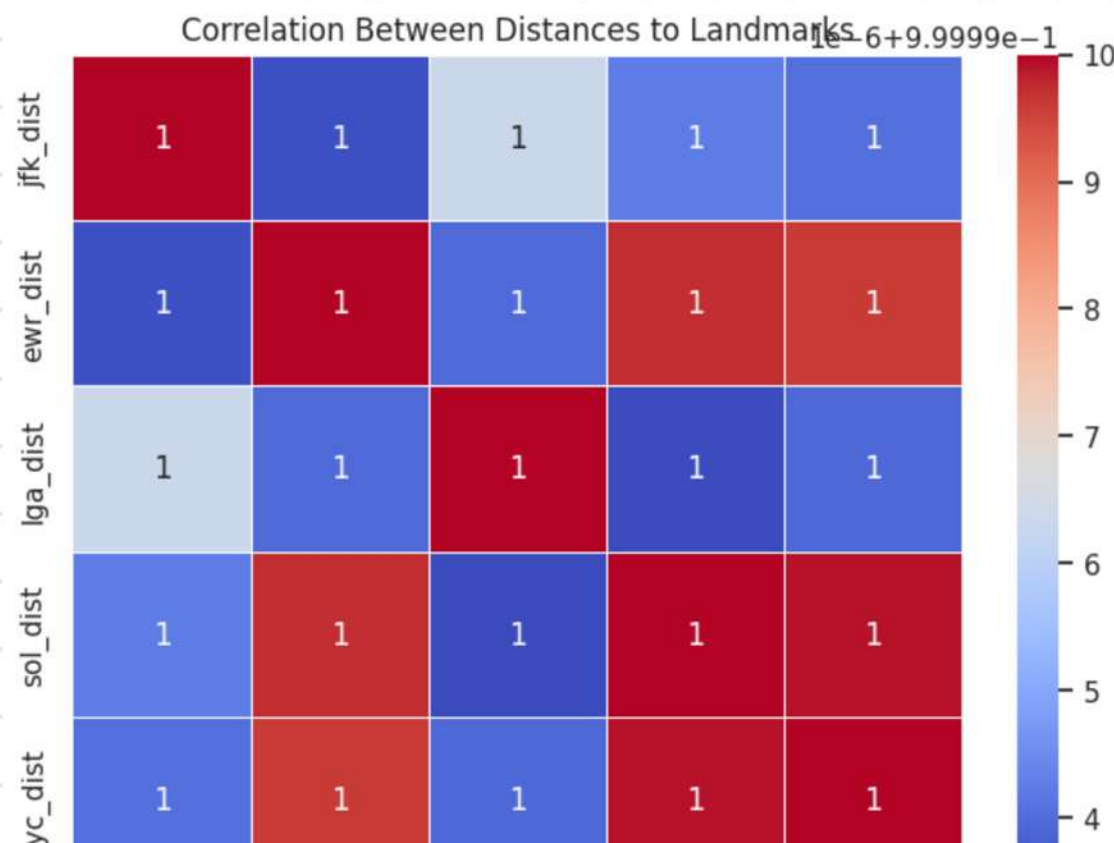
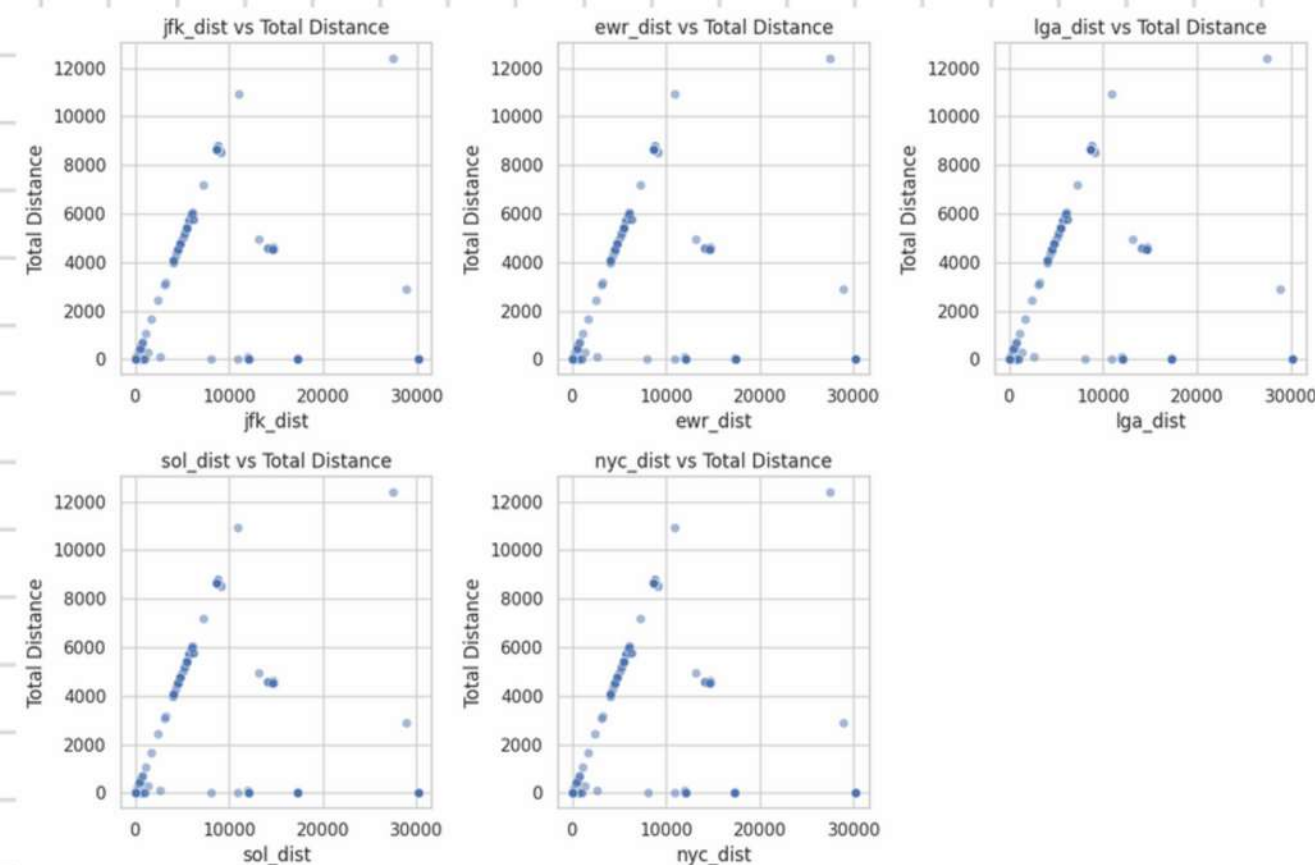
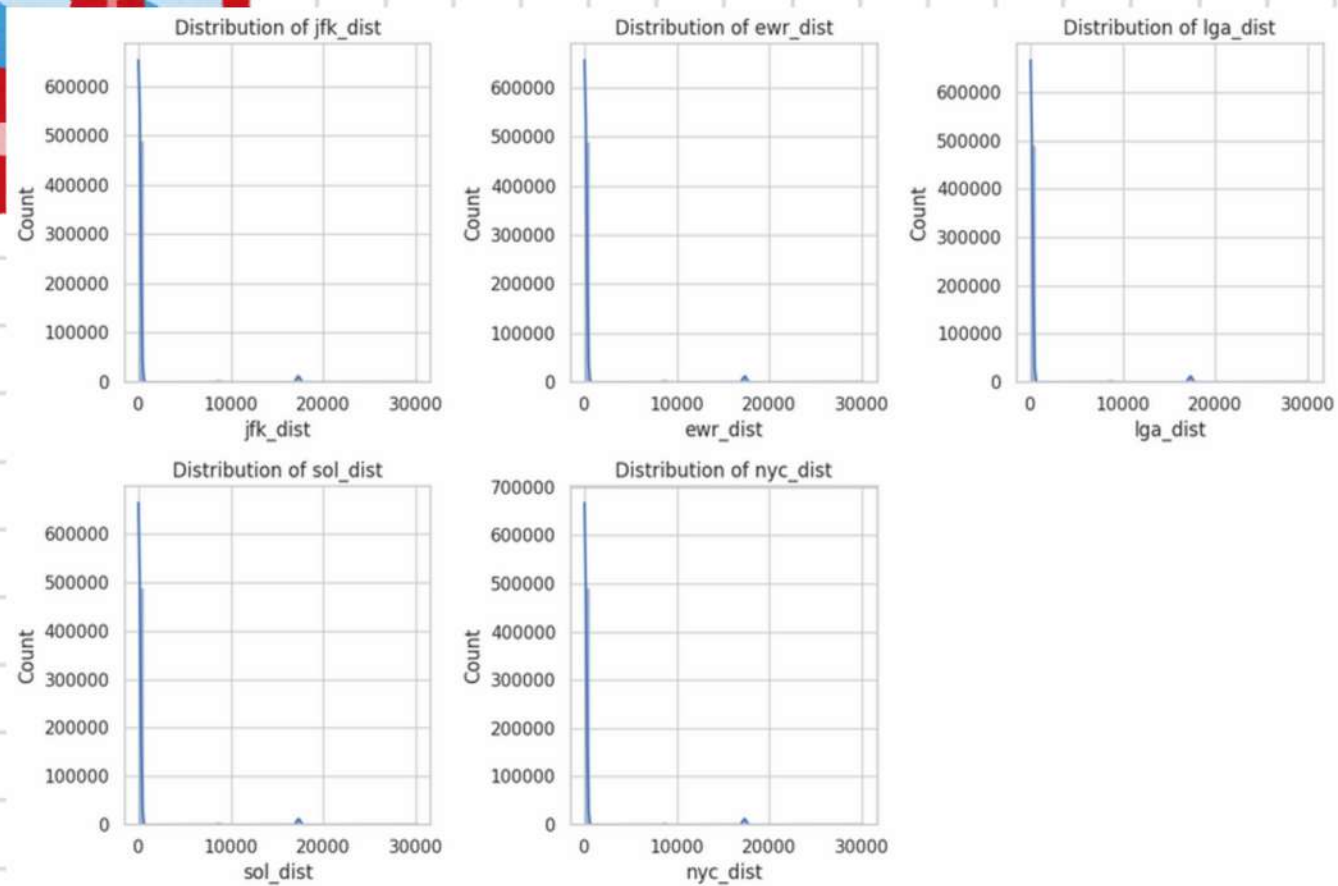
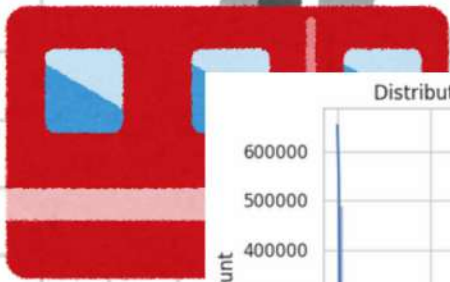


Impact of Traffic and Weather on Fares



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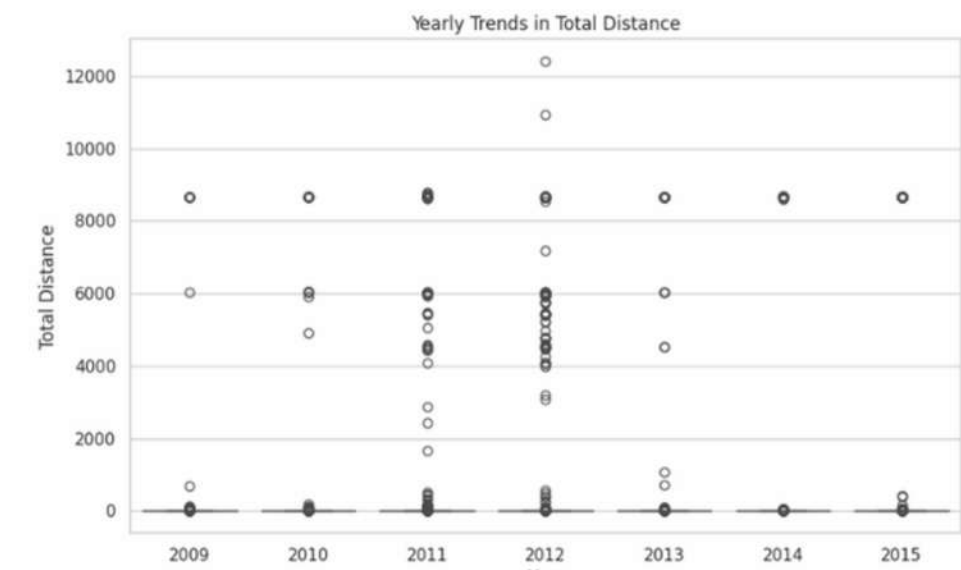
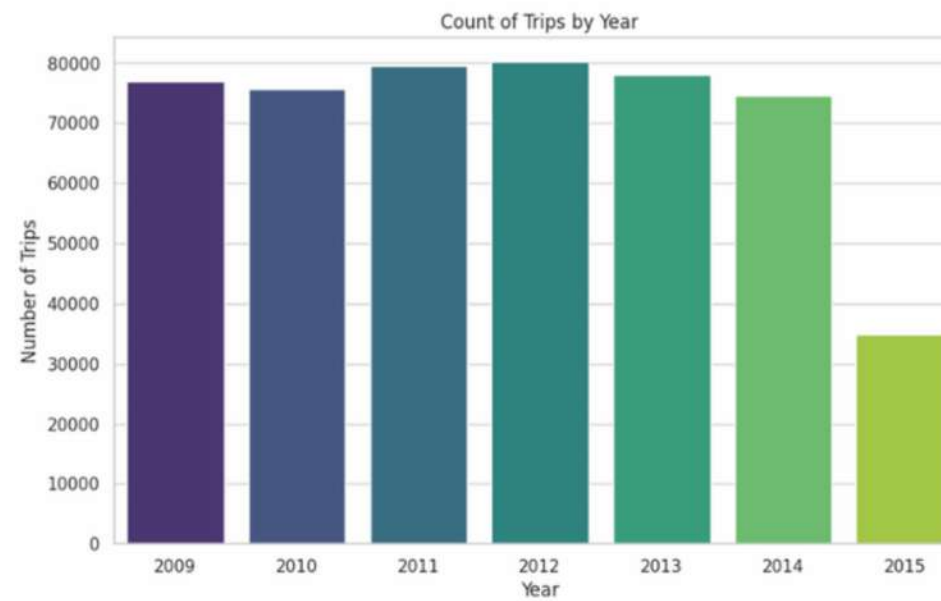
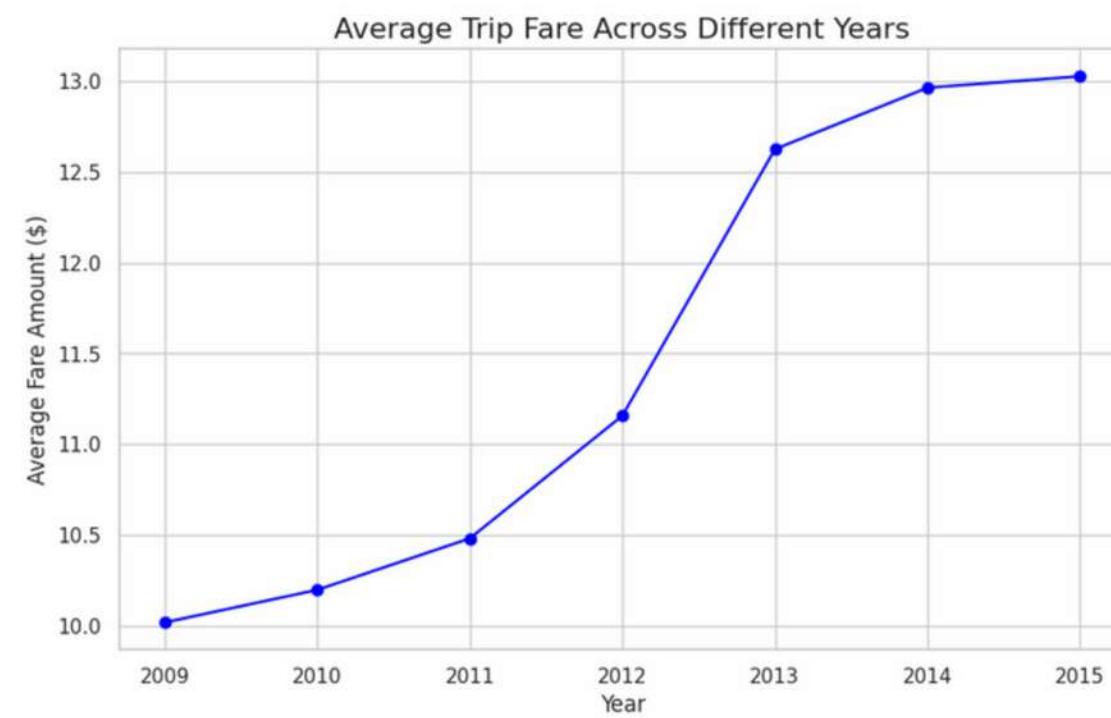
Distance to Landmarks



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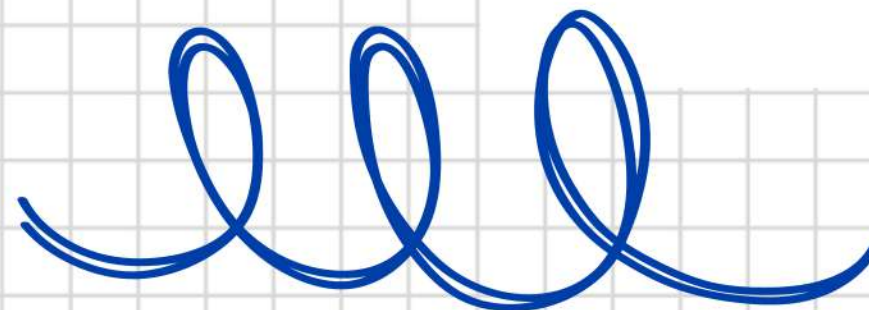
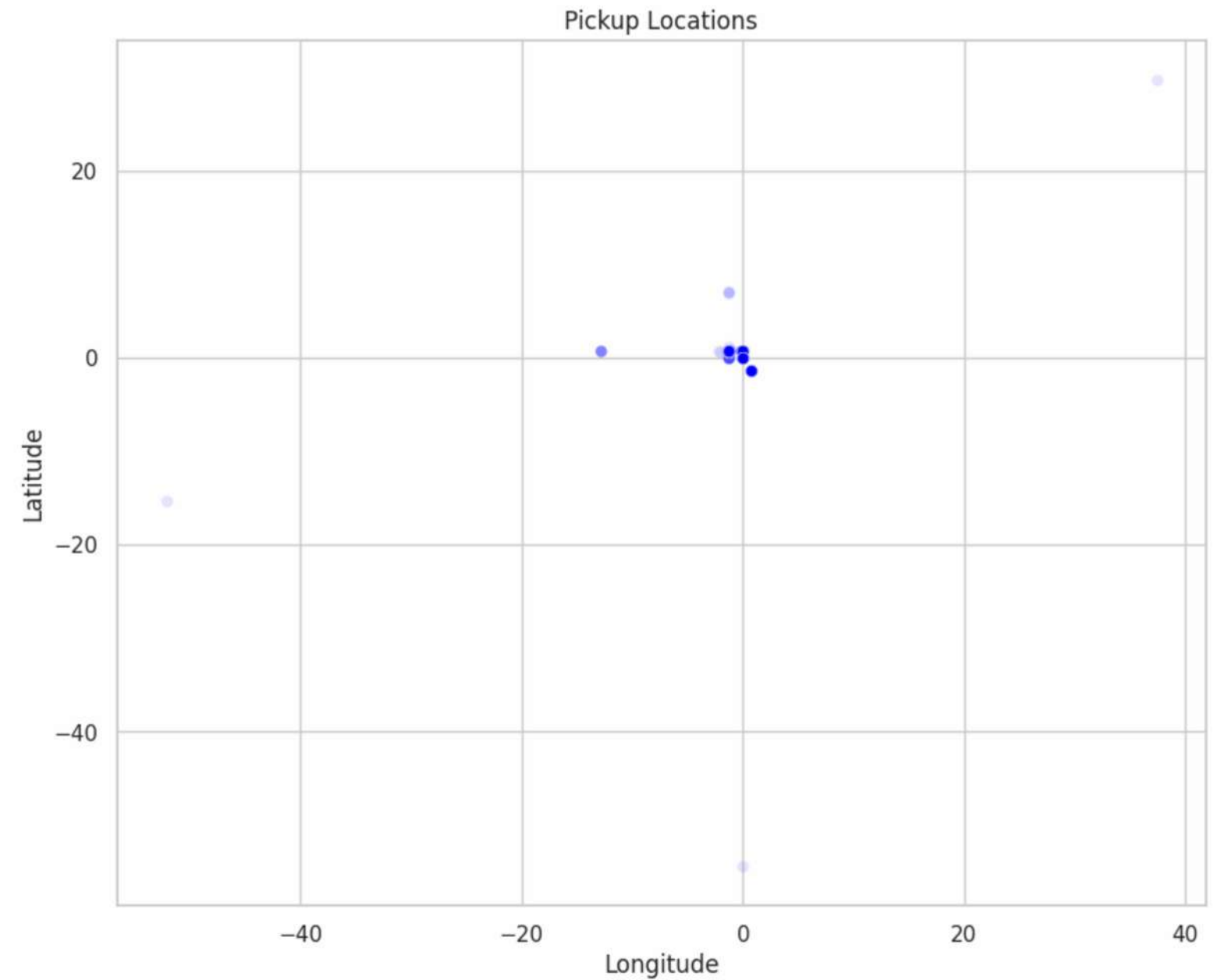
Fare



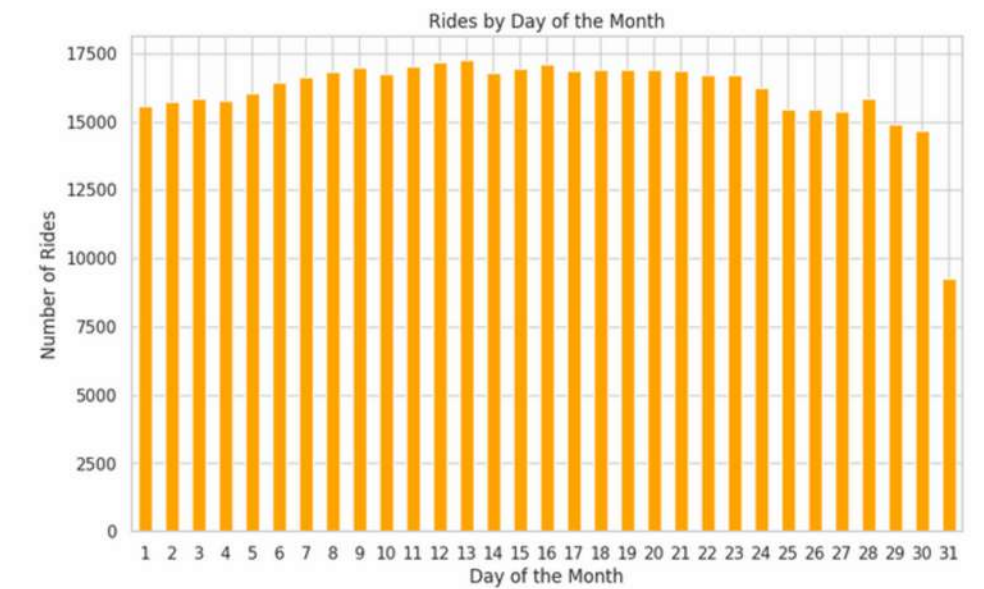
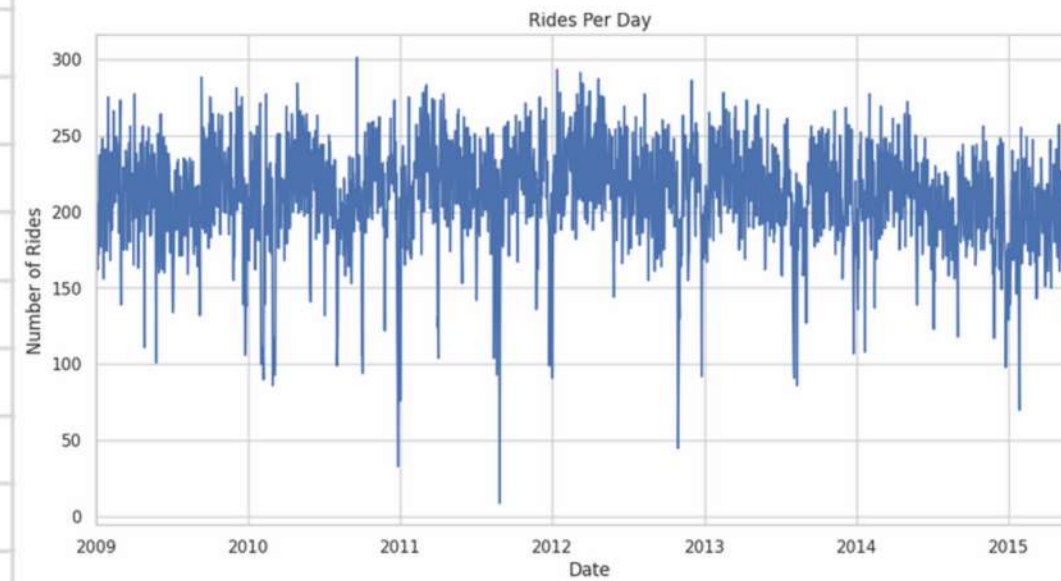
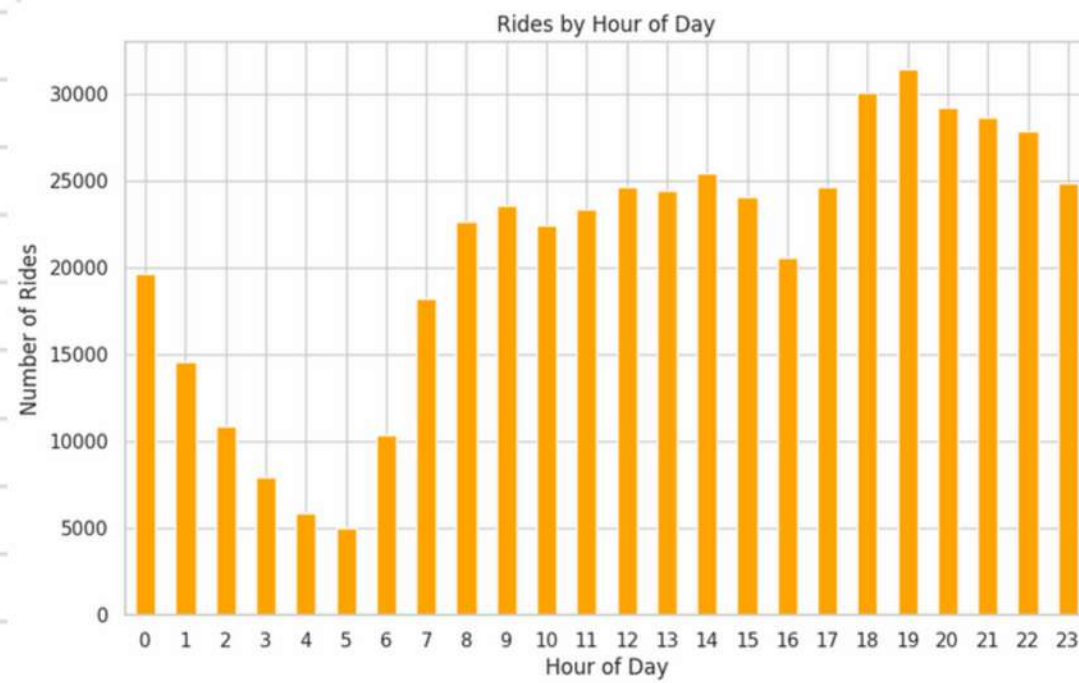
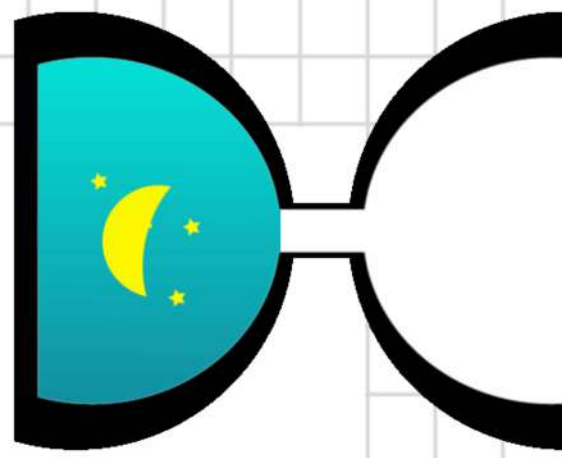
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Pickup and Dropoff Locations

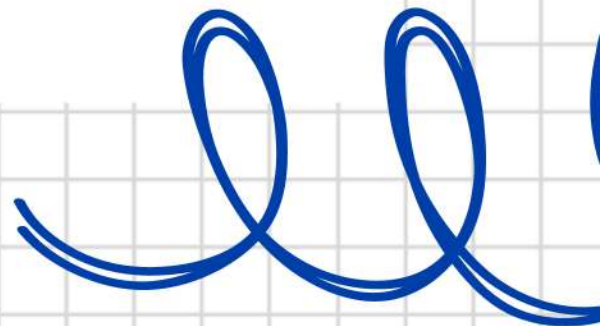
- pickup and drop of locations are almost in the same place showing that this ride sharing is for a specific institution



Rides per day ,hour, month



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Key Takeaways



Most rides are affordable

- with fare amounts clustered between \$6 and \$20.



Longer trips generally cost more

- but outliers suggest other factors (like promotions or traffic) play a role.



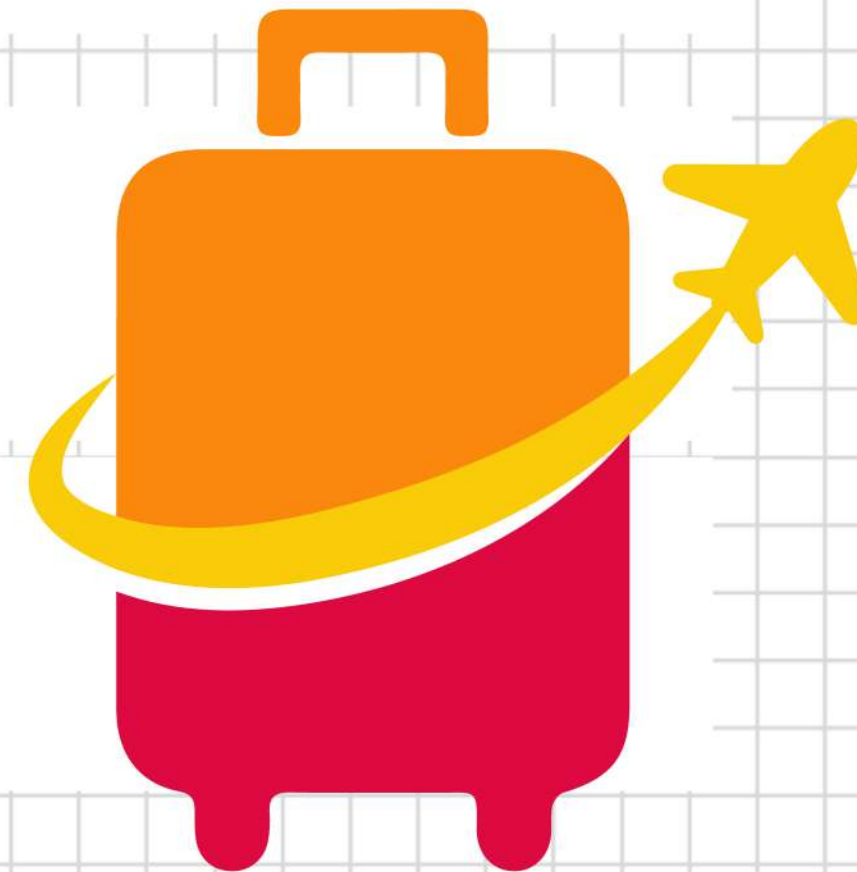
Bad weather and heavy traffic increase fares

- making trips more expensive.



Fares fluctuate based on time

- higher prices during weekends and busy months.



Recommendations for Further Analysis



Analyze Discounts and Promotions

- Investigate if outliers (short trips with high fares) are due to promotions.



Study Driver Performance

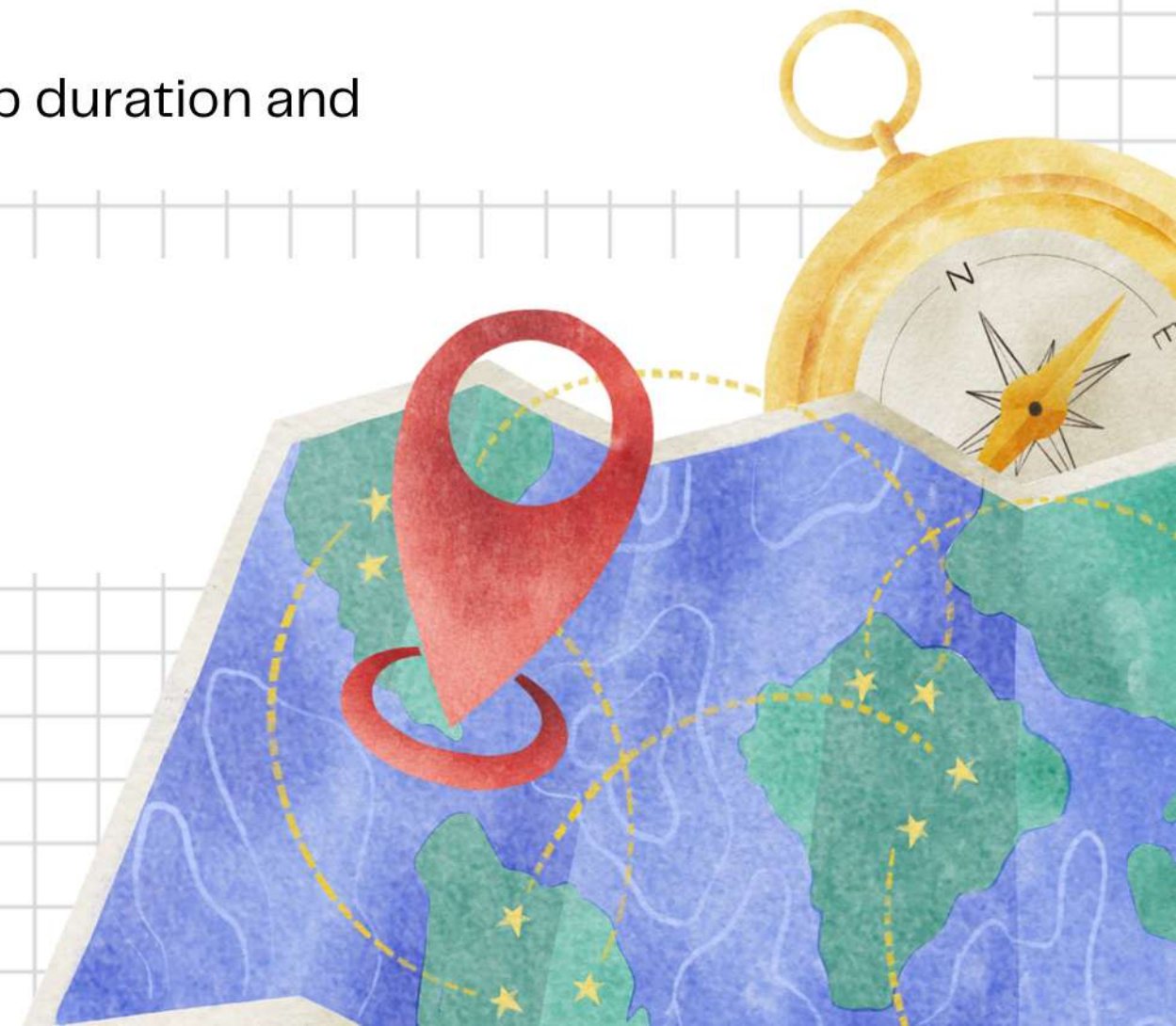
- Look into how car condition and driver experience affect trip duration and fare.



Demand vs. Fare Relationship

- Examine how demand patterns impact surge pricing.

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Conclusion



- This exploratory data analysis provides valuable insights into the key factors affecting fare amounts in ride-sharing services.
- Understanding these patterns can help both customers and companies optimize their experience and pricing strategies

Thank you!