

Uber Fare Data Analysis Summary

This project analyzed Uber ride data to uncover trends in ride behavior, fares, and passenger patterns.

The Python script was used to clean the data, extract new features like day of week and hour of pickup, and generate insights using plots.

After cleaning and processing, the dataset had 169,643 rows and included new columns like pickup hour, day of the week, trip distance, and fare per mile.

Key Insights:

- Most rides occur during rush hours (morning and evening).
- Friday and Saturday have the highest number of rides, indicating busy weekends.
- Most passengers ride alone (passenger count = 1).
- The fare amount increases with trip distance but not perfectly linearly.
- Some outliers exist with extremely high fares, which were removed in preprocessing.

· **Clustered Column Chart** – *Fare Amount by Hour*

➤ This chart shows that Uber fares peak during evening hours (around 6–9 PM), indicating high demand after work hours.

· **Bar Chart** – *Fare Amount by Day of Week*

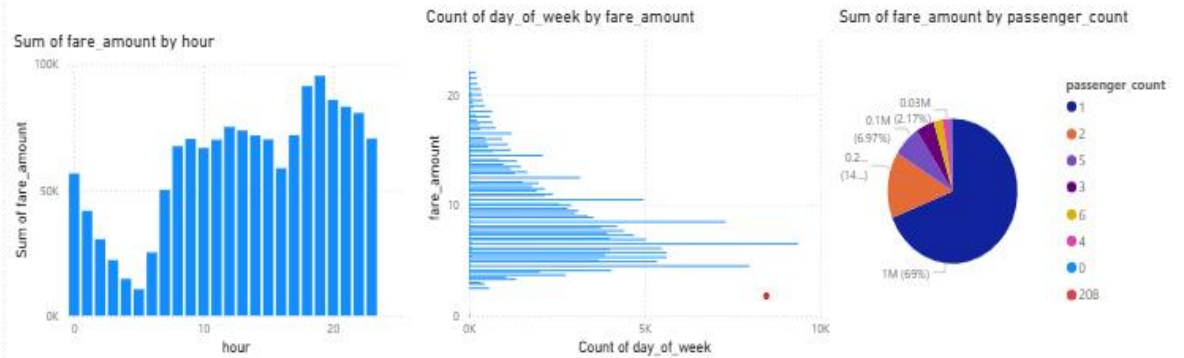
➤ Highest fares are recorded on **Fridays** and **Saturdays**, suggesting increased ride activity near the weekend.

· **Pie Chart** – *Fare Amount by Passenger Count*

➤ The majority of fares come from rides with **1 or 2 passengers**, but the total fare increases with group size, showing shared or group rides are more expensive.

Power BI screenshot

Uber Fare Data Insights - Tabitha Kunda



Clustered Column Chart – Fare Amount by Hour

► This chart shows that Uber fares peak during evening hours (around 6–9 PM), indicating high demand after work hours.

Bar Chart – Fare Amount by Day of Week

► Highest fares are recorded on Fridays and Saturdays, suggesting increased ride activity near the weekend.

Pie Chart – Fare Amount by Passenger Count

► The majority of fares come from rides with 1 or 2 passengers, but the total fare increases with group size, showing shared or group rides are more expensive.

Graphs screenshots

