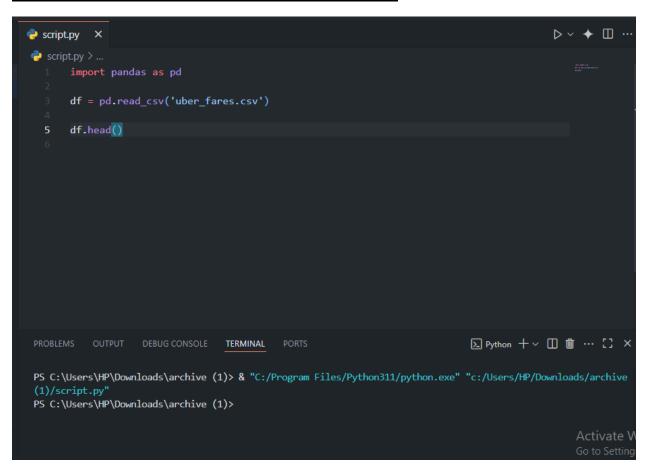
ASSIGNMENT OF BIGDATA

ID: 26092

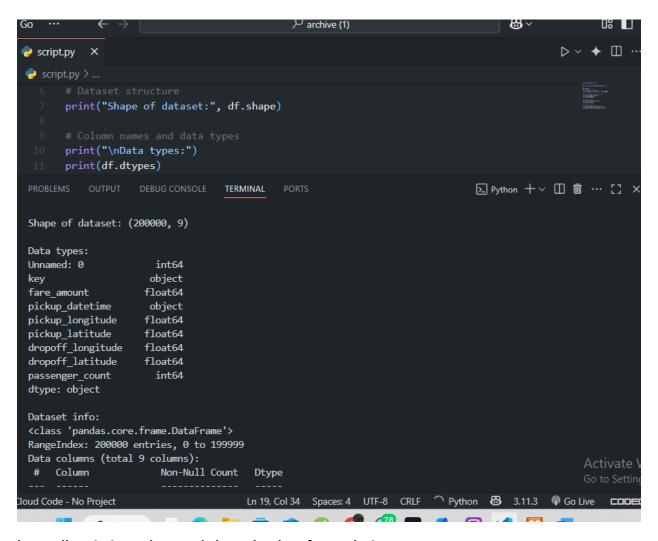
NAME: MUHIRE Samuel

1. Data Understanding and Preparation

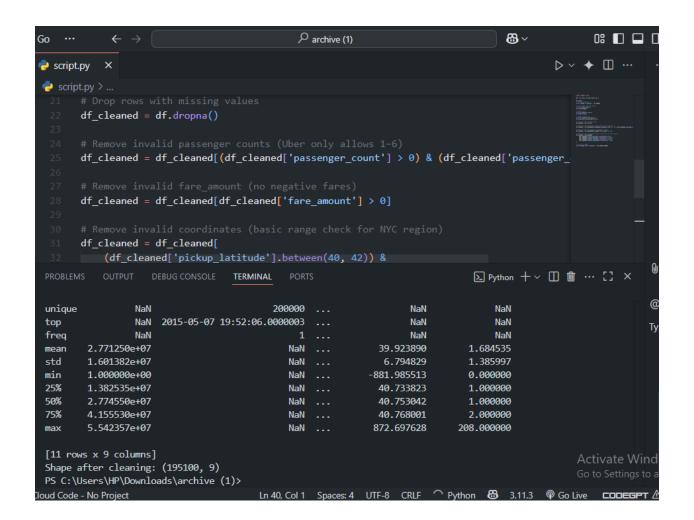
a. Load the dataset into a Pandas DataFrame using Python



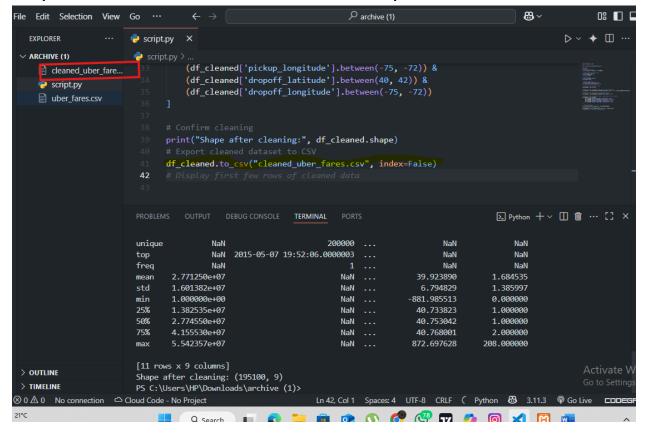
b. Perform comprehensive exploratory data analysis (EDA) to understand:



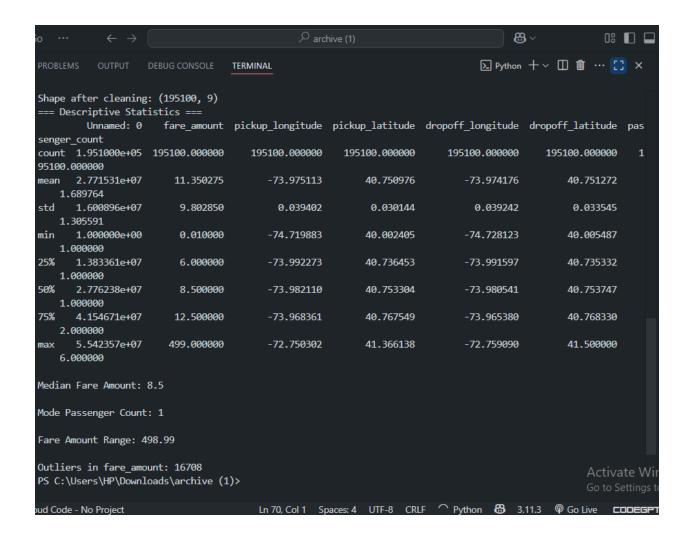
b. Handle missing values and clean the data for analysis



c. Export the cleaned dataset as a CSV file for Power BI import



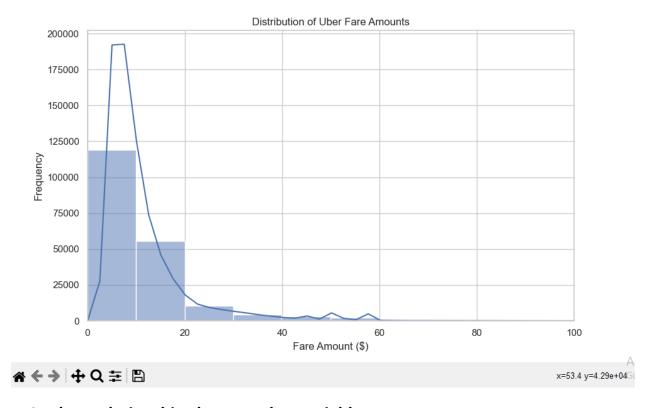
2. Exploratory Data Analysis (EDA)



b. Create visualizations showing fare distribution patterns

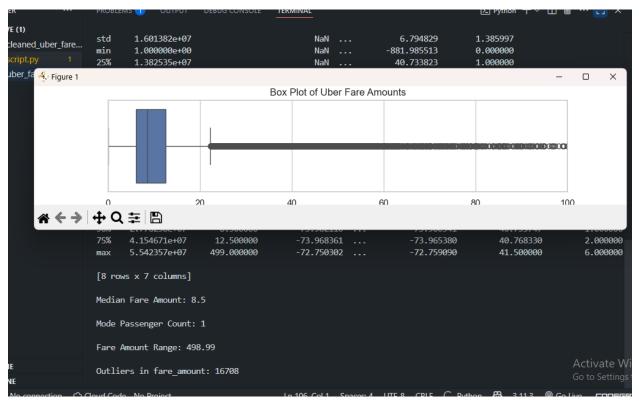
√ Figure 1

— □ X

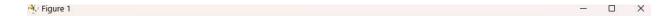


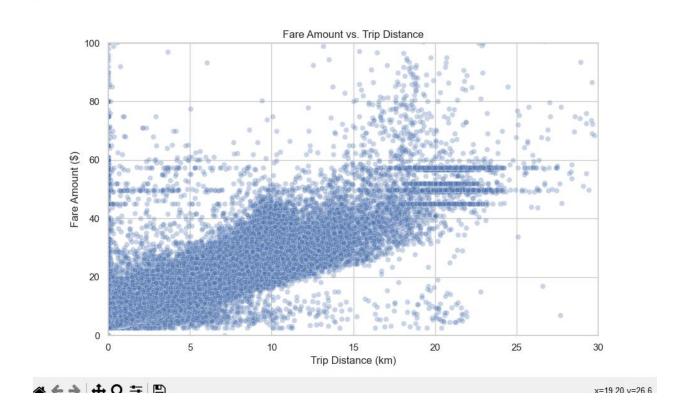
c. Analyze relationships between key variables:

• Fare amount vs. distance traveled



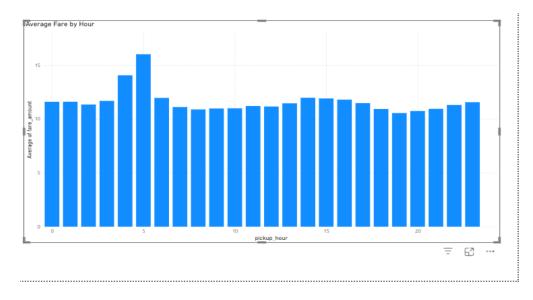
Fare amount vs. time of day





4. Data Analysis in Power BI

b. Create comprehensive visualizations analyzing:



2. Ride Patterns: Hourly, Daily, Monthly

Chart 1: Bar chart – Total rides per hour

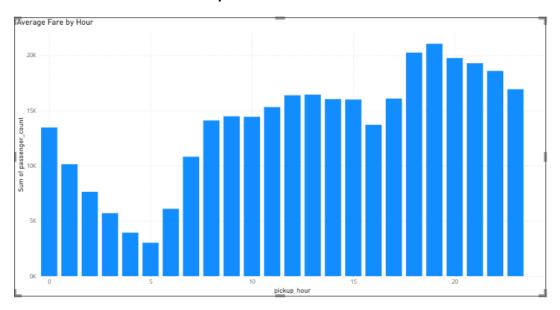


Chart 2: Bar chart – Rides per day of week

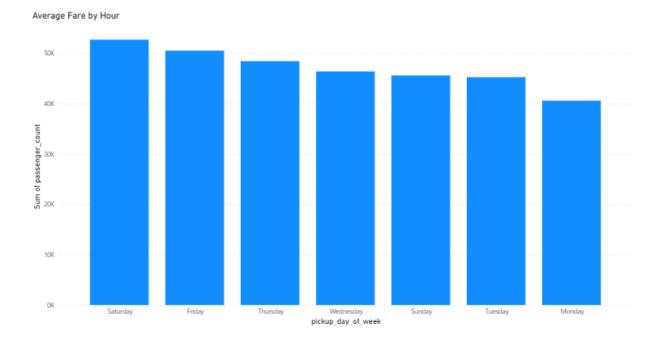
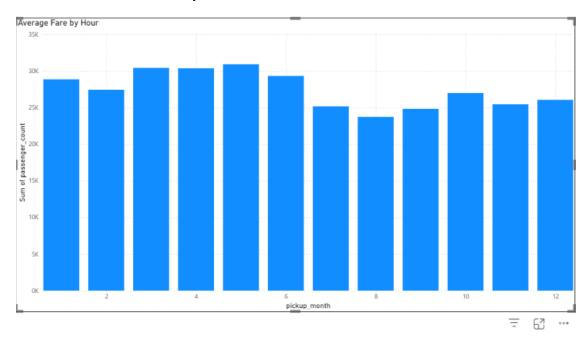
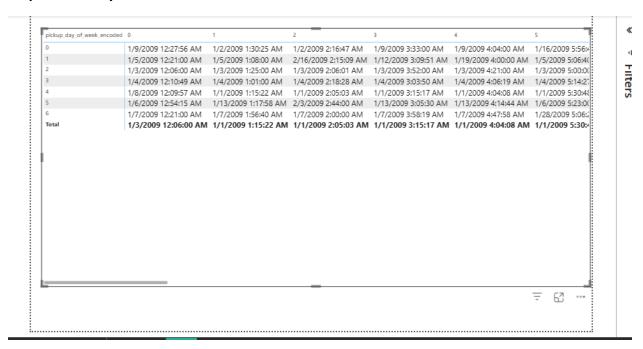


Chart 3: Line chart - Rides per month



Step 4c: Identify Busiest Periods



PART 5: INTERACTIVE DASHBOARD CREATION

