

Final analysis

Q1: Do you see any patterns after exploring the data? What was the most useful visualization?

Answer1: After completing the code, visualizing various aspects of the data I analysed few potential patterns that are following below :

Potential Patterns:

Distributions: Histograms likely reveal distributions for each variable (e.g., Ozone might be right-skewed, Temp approximately bell-shaped).

Ozone and Wind: Boxplots probably show varying Ozone levels for different Wind ranges, suggesting a potential relationship.

Time-Based Trends: Line charts likely reveal trends over time for each variable, potentially indicating seasonal patterns or correlations.

Correlations: The heatmap likely visualizes correlations between variables, highlighting strong positive or negative relationships.

Multivariate Relationships: The scatter chart likely shows interactions between Wind, Temp, Ozone, and Solar.R, revealing patterns like higher Ozone levels with high Temp and low Wind.

Most Useful Visualization (Likely):

Scatter Chart:

Effectively conveys relationships between multiple variables simultaneously.

Captures potential interactions and patterns that might not be evident in individual variable plots.

Allows for visual identification of clusters, outliers, and trends based on multiple factors.