

Sales Analysis

1. Data Preparation:

- The sales data from each month has been merged into one dataset for comprehensive analysis.

2. Data Cleaning:

- Checked data types and for missing values, and dropped missing values to ensure data integrity.
- Converted columns to its appropriate type for statistical analysis.

3. Top Products Analysis:

- Identified top-selling products by analyzing the quantity ordered and revenue generated for each product.
- Visualized top products using bar plots, showing the quantity ordered and revenue generated.

4. Monthly Revenue Analysis:

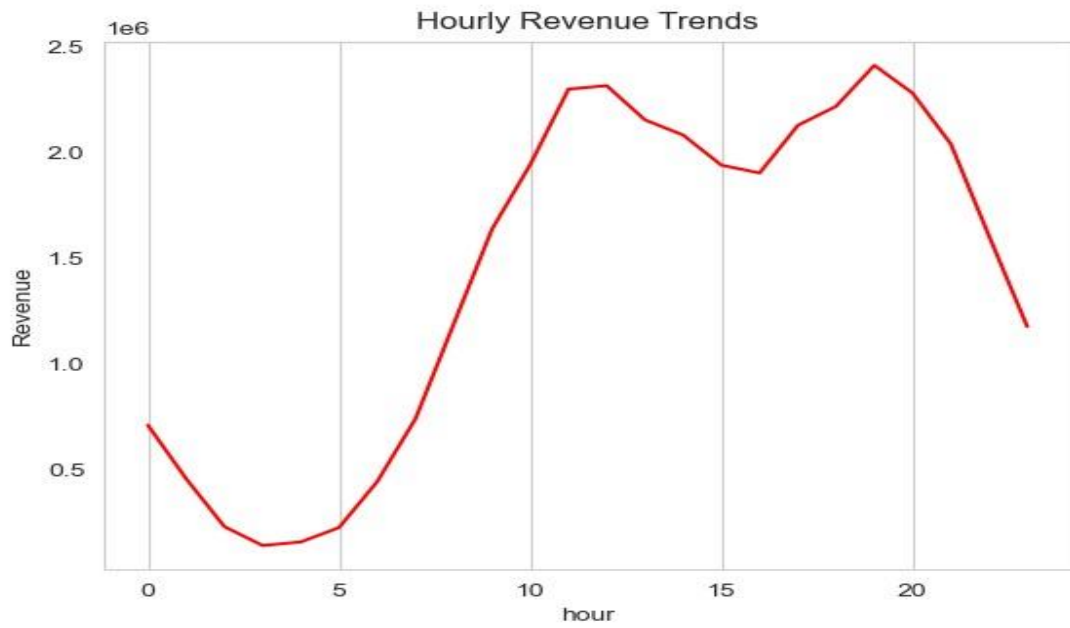
- Analyzed monthly revenue trends to identify patterns and seasonality in sales.
- Visualized monthly revenue using a line plot, highlighting the highest revenue month.

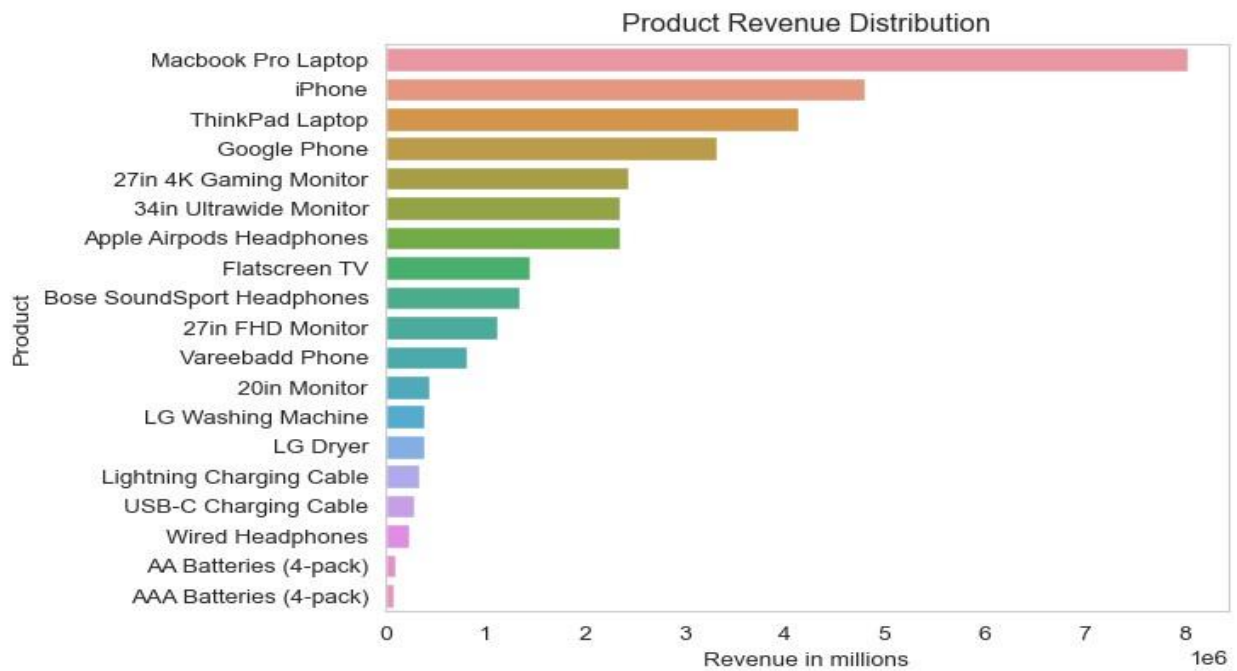
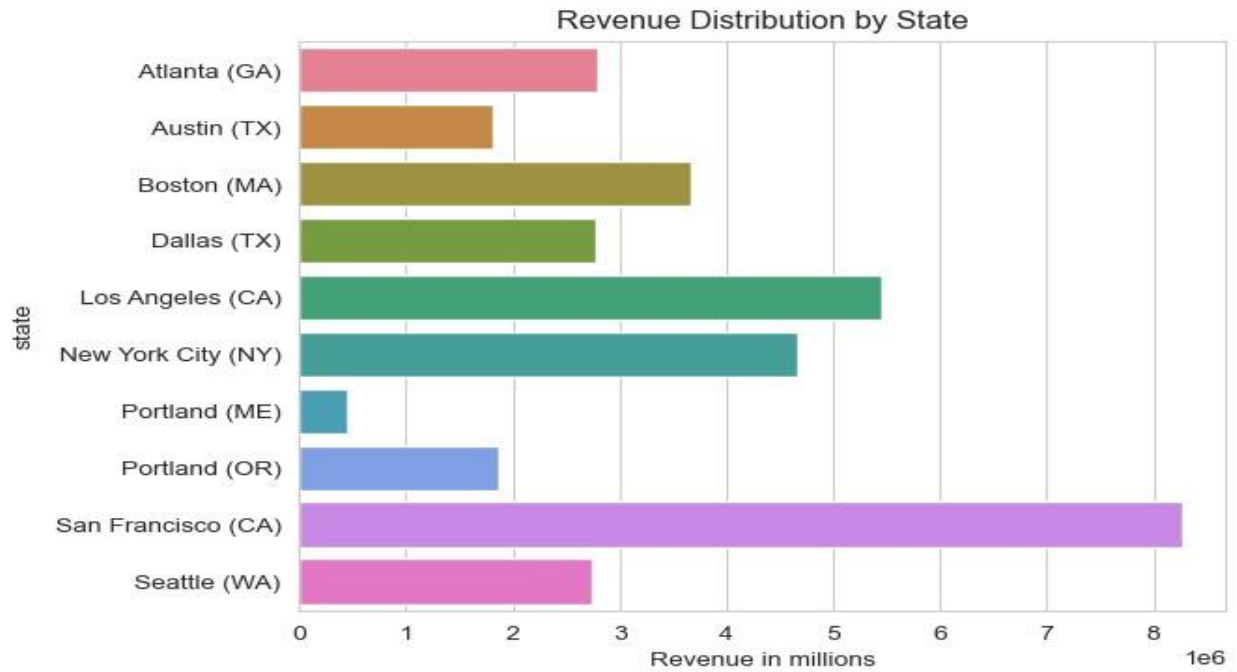
5. Hourly Revenue Analysis:

- Examined hourly revenue to identify peak sales times throughout the day.
- Visualized hourly revenue using a line plot, indicating the peak sales hour.

6. Revenue by State Analysis:

- Investigated revenue distribution across different states to identify top revenue-generating regions.
- Visualized revenue by state using a bar plot, highlighting the highest revenue state.





Key Insights:

- The highest revenue-generating state is San Francisco.
- Sales peak at 19:00 (7:00 PM), indicating the most active sales hour.
- December is the month with the highest revenue, possibly due to holiday season sales.
- The Macbook Pro Laptop generates the most revenue, likely because of its high price.
- AAA Batteries (4-pack) has the highest quantity ordered, possibly due to its affordability.