Analyzing Vehicle Sales Trends During Recession

IBM Certified Data Science Capstone Project

Executive Summary

- Overview of project goals, methods, and key outcomes.

Introduction

- Problem definition and business context.

Data Collection & Wrangling

- Sources, formats, and cleaning steps.

Wrangling Methodology

- Detailed methods used for data wrangling.

EDA & Visual Analytics Methodology

- Approach and tools for visual exploration.

Predictive Analysis Methodology

- Algorithms used and reasoning behind model choice.

EDA Visualization Results - Part 1

- Trends in vehicle sales over time.

EDA Visualization Results - Part 2

- Trends during recession vs non-recession.

EDA Visualization Results - Part 3

- Insights from bubble plots, line plots, scatter plots.

SQL Analysis Results - Part 1

- SQL queries to analyze vehicle sales data.

SQL Analysis Results - Part 2

- Insights derived from SQL queries.

SQL Analysis Results - Part 3

- Data aggregations and trends by vehicle type.

Folium Map Results

- Geographic distribution of sales using Folium.

Plotly Dash Dashboard

- Interactive dashboard showcasing sales insights.

Predictive Analysis Results

- Classification results and model performance.

Conclusion

- Findings, impact, and future directions.

Creative Additions

- Any enhancements or innovations beyond the rubric.

References

- Datasets, APIs, and libraries used.