Final Report - EV Clustering Project

Dataset Used: Electric Vehicle Population (Kaggle) Model Applied: K-Means Clustering Preprocessing Steps: - Removed duplicates and filtered years (1990-2025) - Selected important columns - Normalized numbers: Electric Range, Base MSRP, Model Year - Turned Electric Range into categories: Low, Medium, High Why K-Means? This model is simple and good for grouping numbers into clusters. Our data is already clean and scaled, so K-Means works well here. GitHub Link: https://github.com/dwar32/ev-clustering Findings: We used Elbow Method and found 3 clusters. - Cluster 0: Newer cars, low price, good range - Cluster 1: Old or cheap cars with low range

This helps to understand what kind of EVs exist and how they differ by price and performance.

- Cluster 2: Expensive cars with small range (maybe hybrids)