ELECTRIC VEHICLE RANGE PREDICTION

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OUR PROBLEM

The transition to electric mobility is emerging as a major challenge for the 21st century. **Range** is now one of the most decisive criteria for consumers and car manufacturers. It depends on many factors such as battery capacity, engine power, vehicle weight, and aerodynamics.

OUR SOLUTION

- TASK : Supervised Regression
- TARGET : Range in kilometers
- BASELINE : Linear Regression
- INITIAL MODEL : Linear Regression

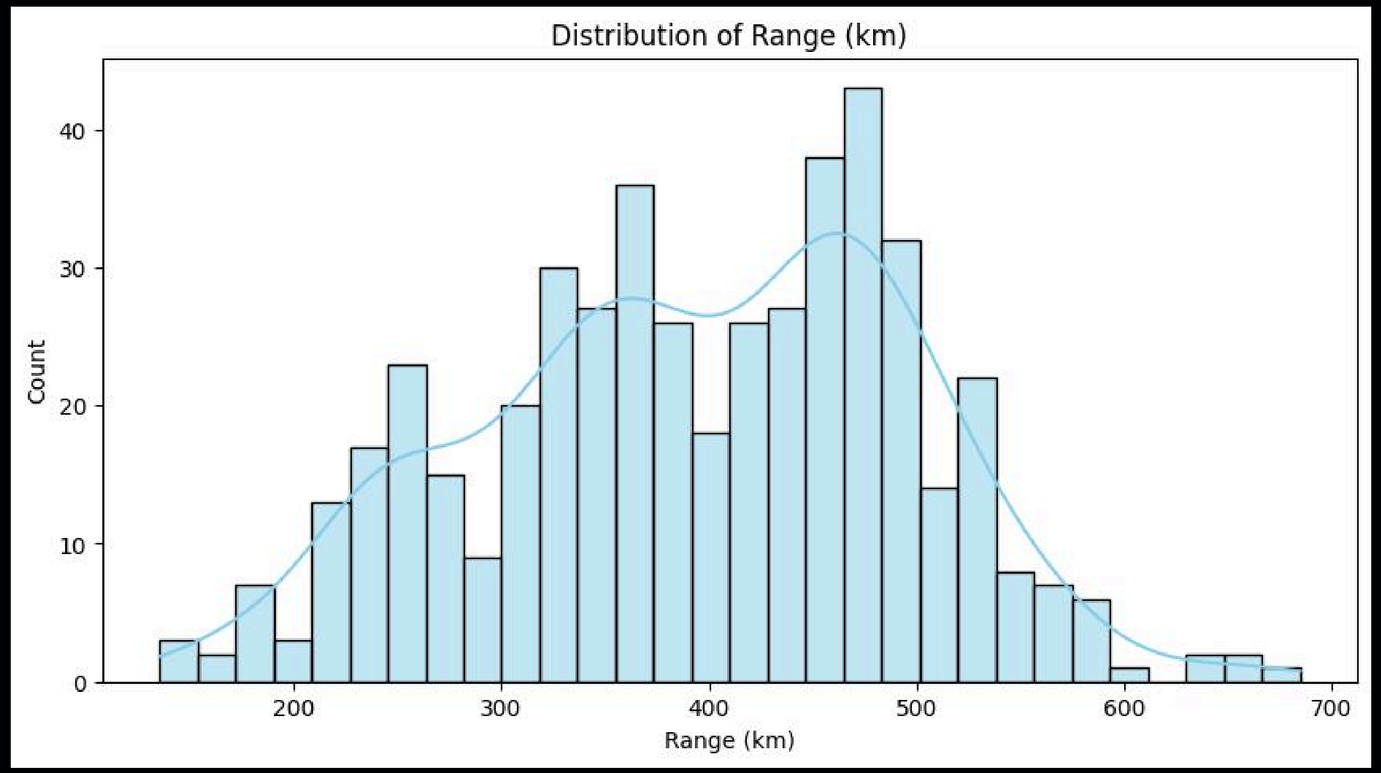
Data Insights (EDA)

Electric Vehicle Specs Dataset (2025)

478 rows, each corresponding to a unique electric vehicle configuration. For example : Porsche Taycan Turbo GT Weissach
22 columns, with key variables such as Range, Efficiency, Battery Capacity...

Some outliers and missing values were present.

Data Insights (EDA)



Distribution of Range (km)

Our First Model : Linear Regression