

# ELECTRIC VEHICLE RANGE PREDICTION

Nathan Truong, Baptiste Vieillefosse, Aurélien Yang



# 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 : Random Forest Regressor

# 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.

# Our First Model : Random Forest Regressor

