

INTRO TO MACHINE LEARNING PROJECT

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The Project

How can we determine the mileage or mile range of an electric vehicle from certified EPA ratings

THE APPROACH

- The EPA tests a vehicle in a controlled lab environment while simulating driving conditions of different areas (city, highway, high speed, etc.) to estimate range
- The biggest factors in determining range is vehicle weight, battery capacity and shape of the car (shape determines force of aerodynamic drag)
- The above information is openly available for almost every electric vehicle on the market today, making a database fairly easily acquired
- Testing the vehicle weight against battery capacity for different types or shapes of cars will extrapolate an estimated mile range