Cobify Gas Type Analysis Final Report

Cobify loves tricked-out cars. Those cars love high octane petrol, like the SP98. But Cobify wants to go ‘green’ and pick an alternative fuel that reduces the carbon footprint without increasing the costs of transportation. The selected fuel is the E10, which is the SP98 with substituting 10% of Gasoline with 10% Ethanol.

We conducted analysis on a dataset that have the following datapoints:

**Distance**: in kilometers  
**Consume**: consumption of L/100Km  
**Speed**: in Km/h  
**temp\_inside**: temperature (in Celsius) inside the car  
**temp\_outside**: temperature (in Celsius) outside the car  
**Gas Type**: SP98 (Petrol type) or E10 (SP98 but with 10% Ethanol)  
**AC**: if the air conditioning was on on (1) or off (0)  
**rain**: if it was raining (1) or not (0)  
**sun**: if it was sunny (1) or not(0)

Our exploratory analysis compared how the gas types consumption performed at a given temperature, at a given speed of the car was and by the distance travelled.

We concluded through graph analysis that both fuels have a similar consumption and, therefore, no relevant financial difference would be noticed if Cobify would opt to use the E10 gas type.

Hence, our beloved tricked-out cars can have a cleaner juice to drink on. We recommend the change to E10 as we reduce our carbon emissions with no extra cost and would benefit from the positive green marketing as well.