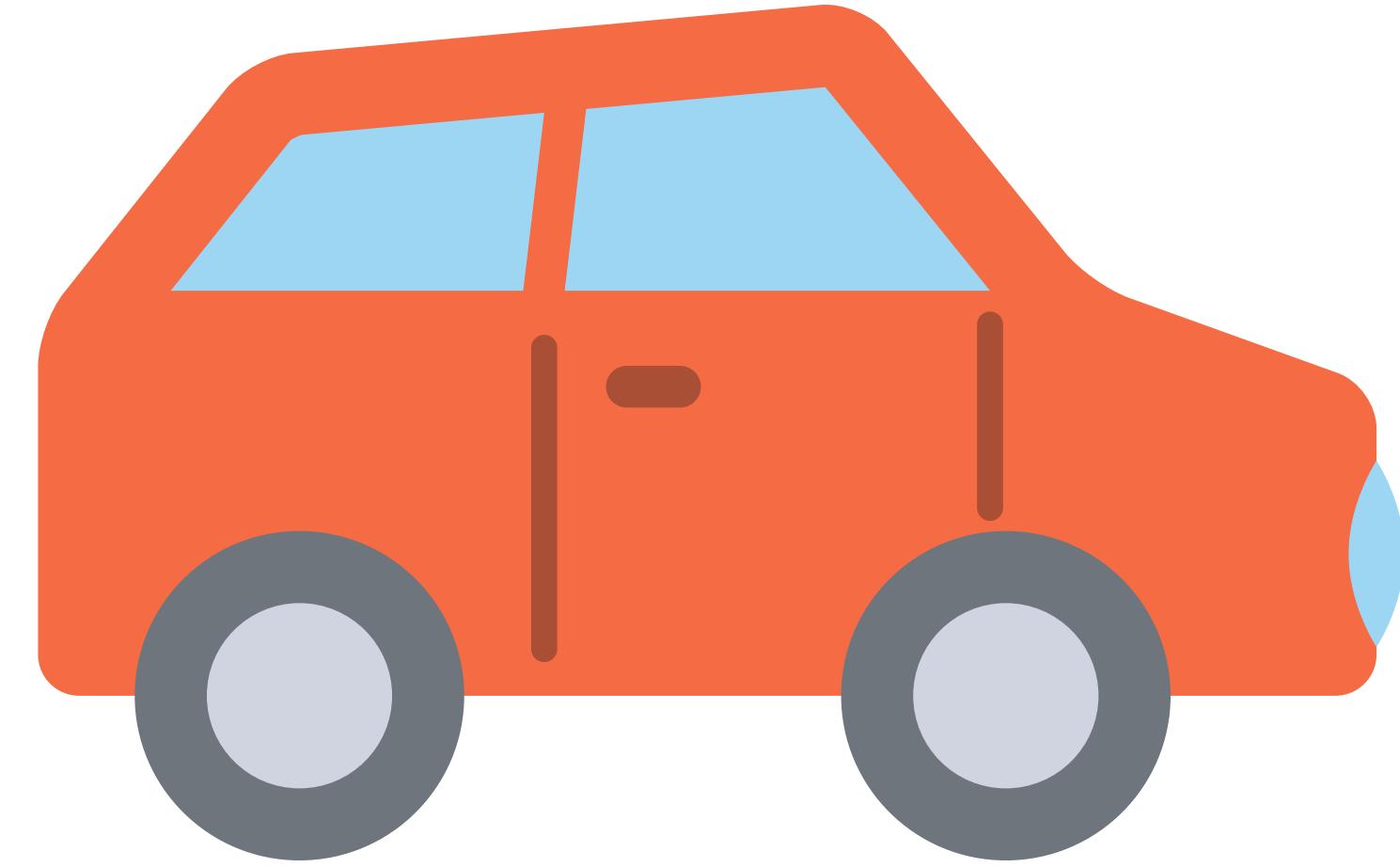
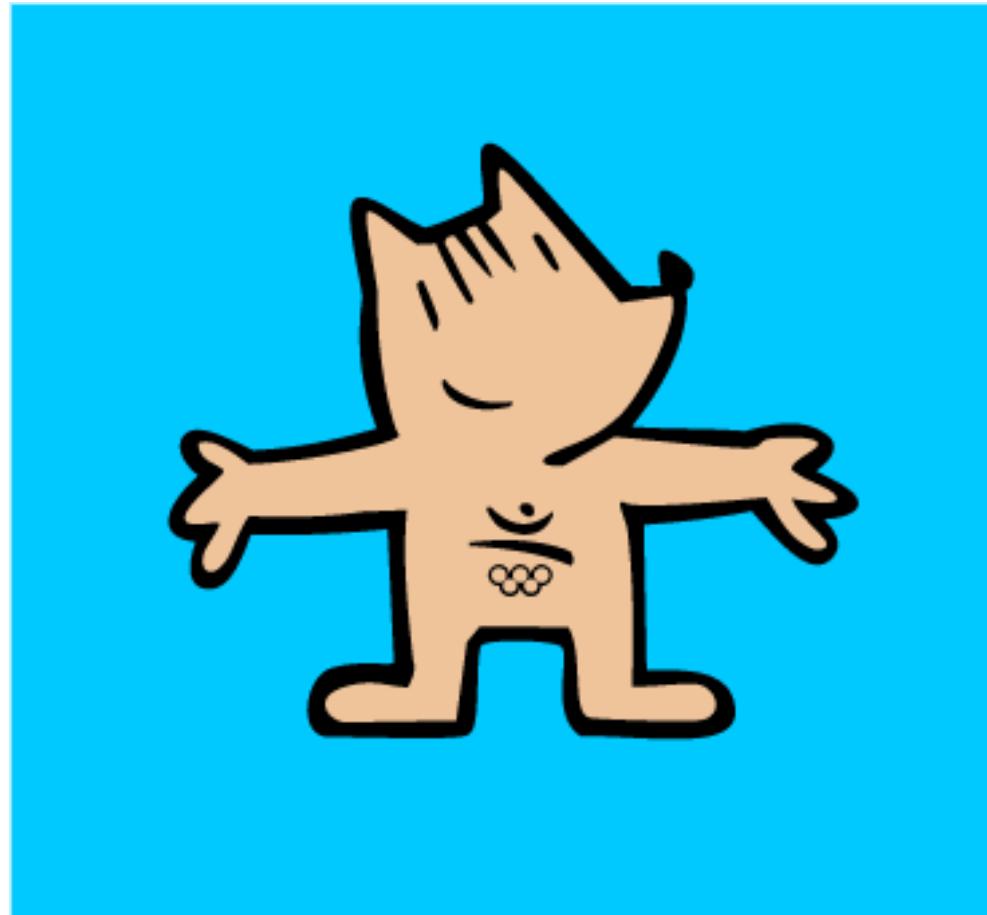


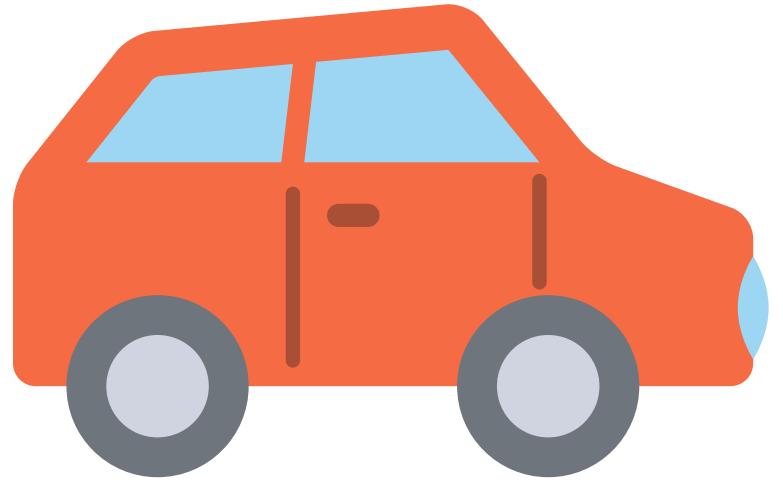
How to power COBIFY



Executive Report

Sebastian Bobeth

Ironhack Tech Challenge (Career Week)



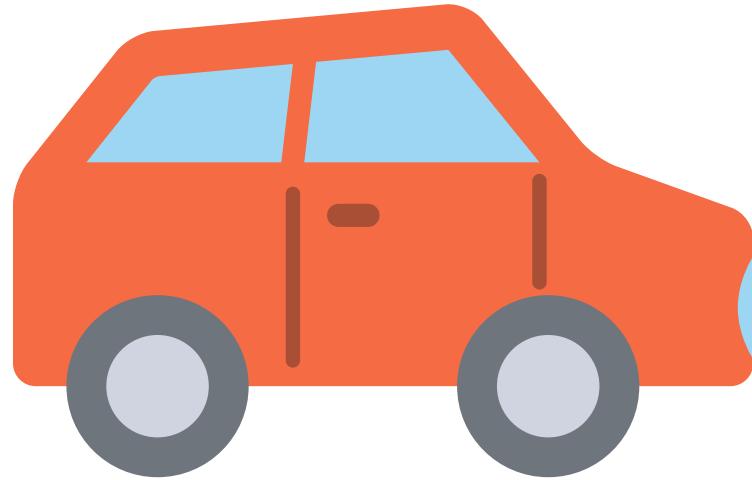
Your Data Question

Shall Cobify switch the fuel type of cars from SP98 to E10?

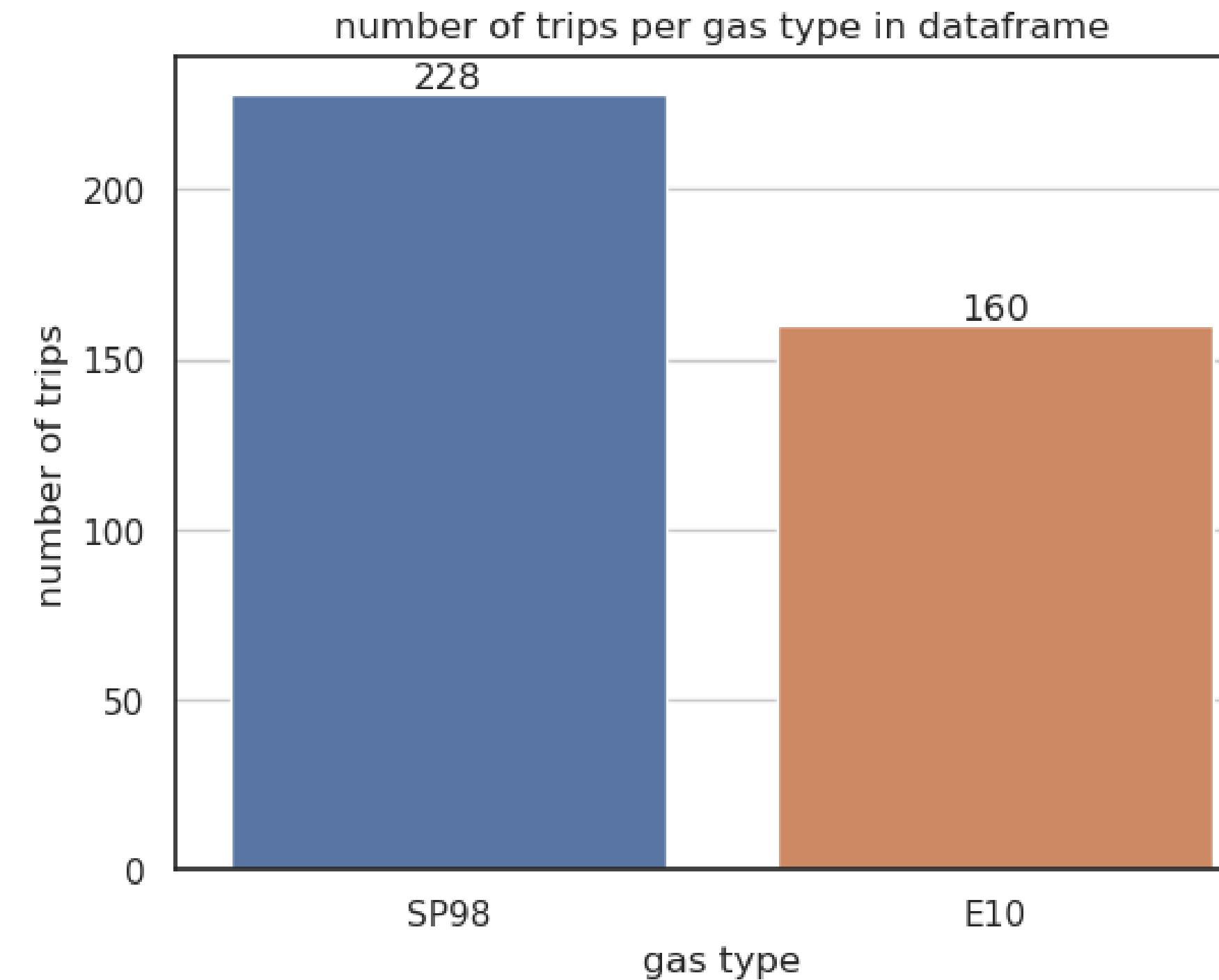
Prices:

- SP98: 1,46€/l
- E10: 1,38€/l





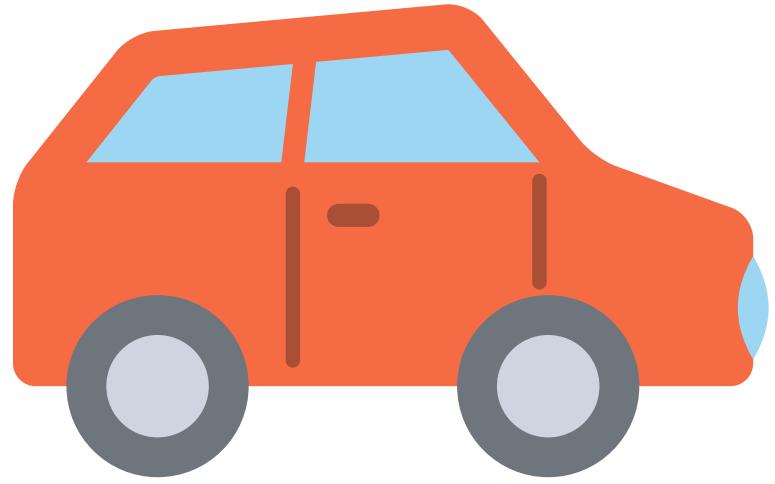
Your Data



You collected data on several hundred trips with gas types SP98 and E10.

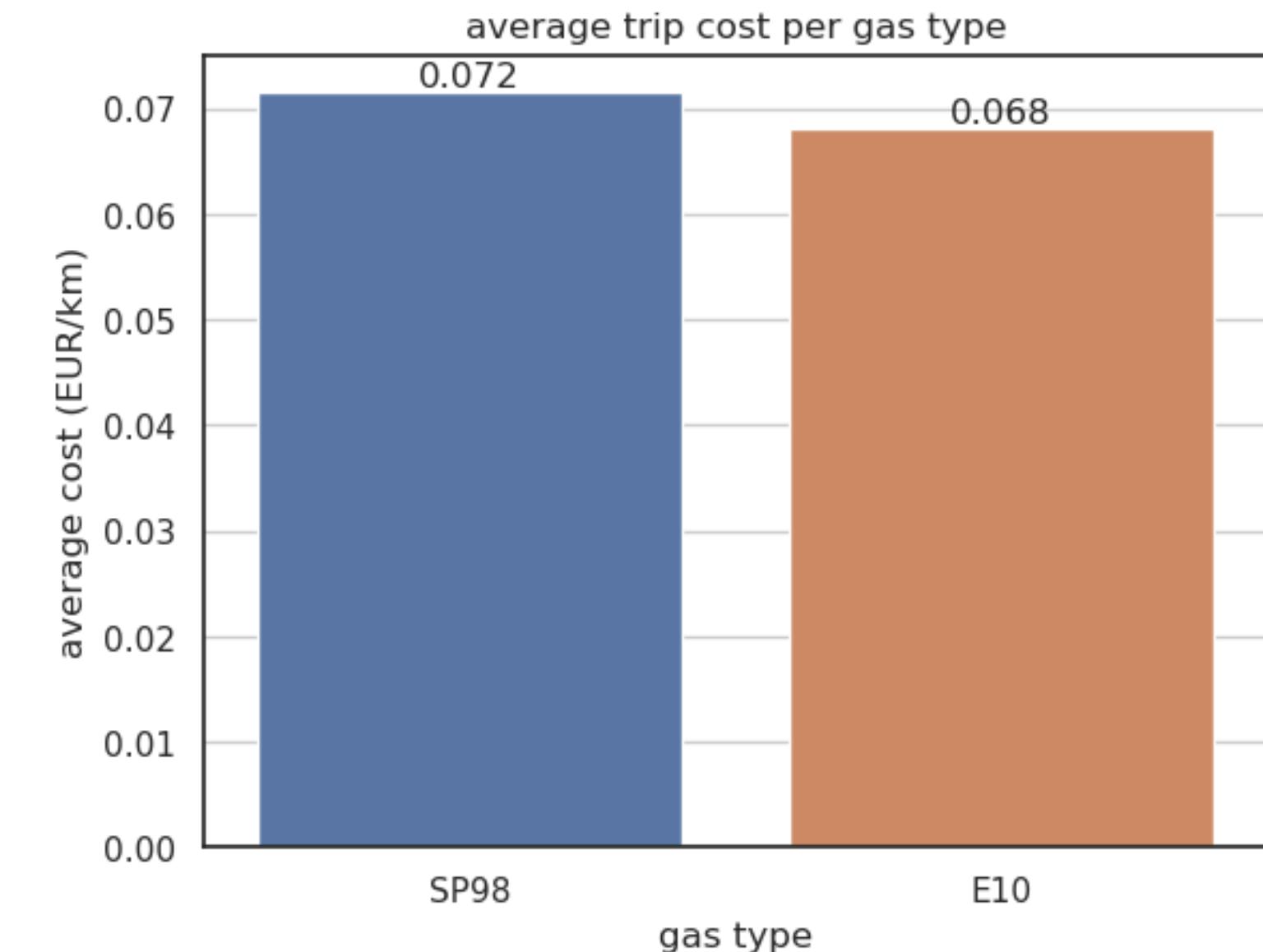
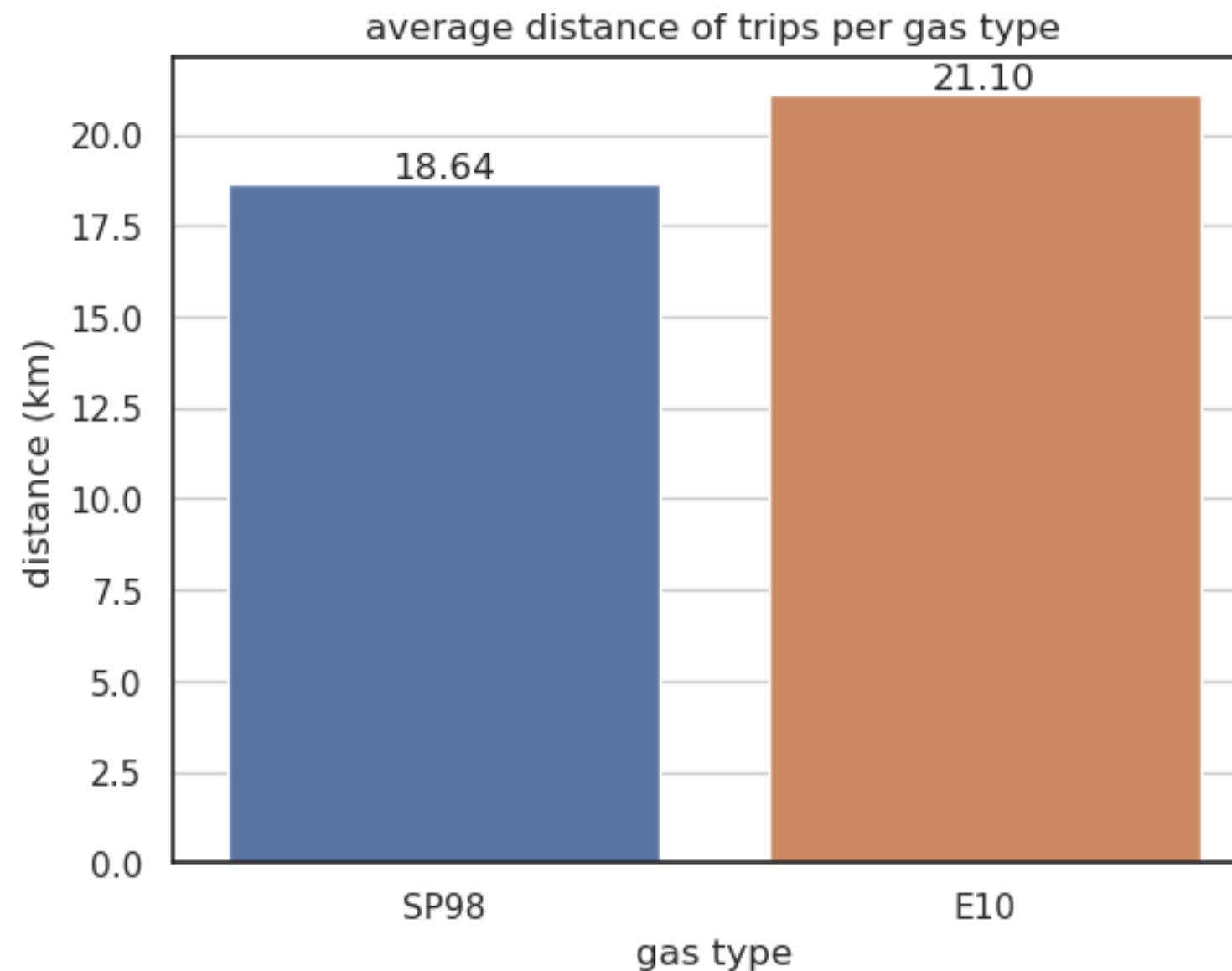
Variables included:

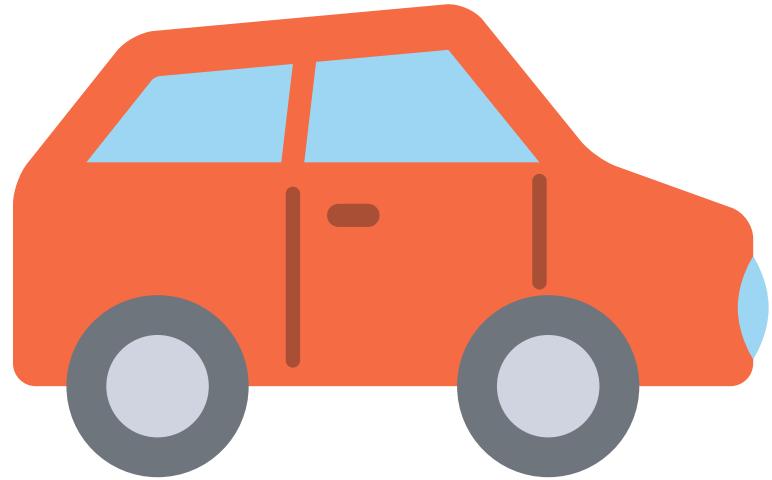
- Distance (km)
- Average speed (km/h)
- Consume (l / 100 km)
- Temperature (inside / outside)
- Weather (sunny / rainy, snowy)
- AC usage



Exploring the fuel types

The average trip length was a bit higher for trips with E10, while the relative trip costs were a tiny bit lower.

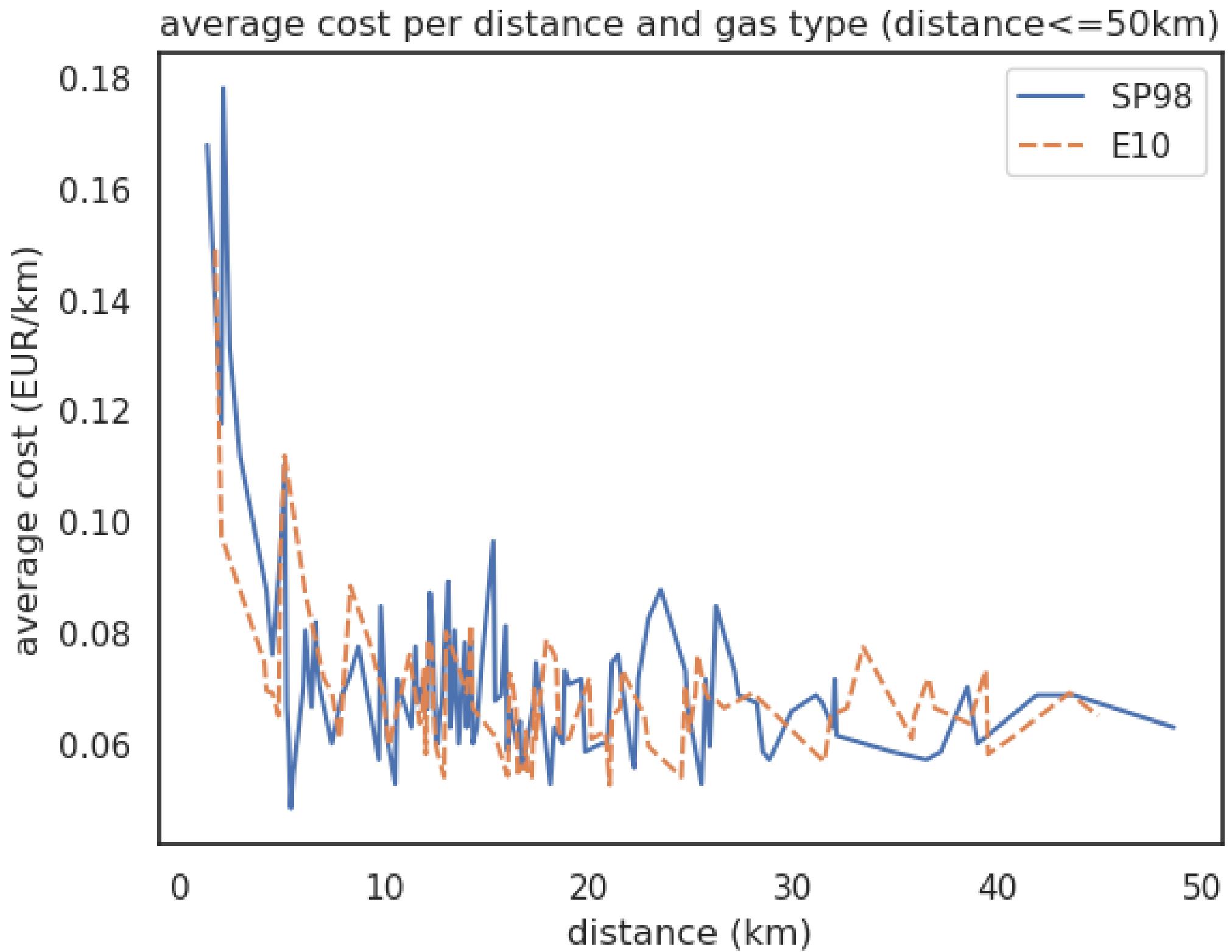


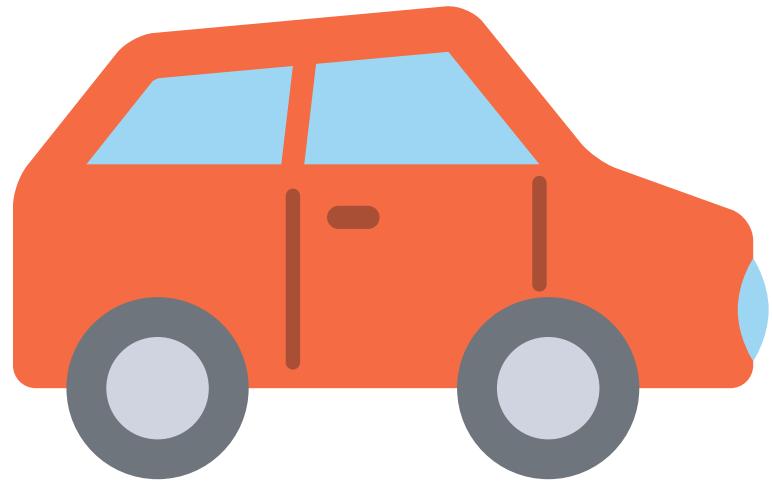


Exploring the fuel types

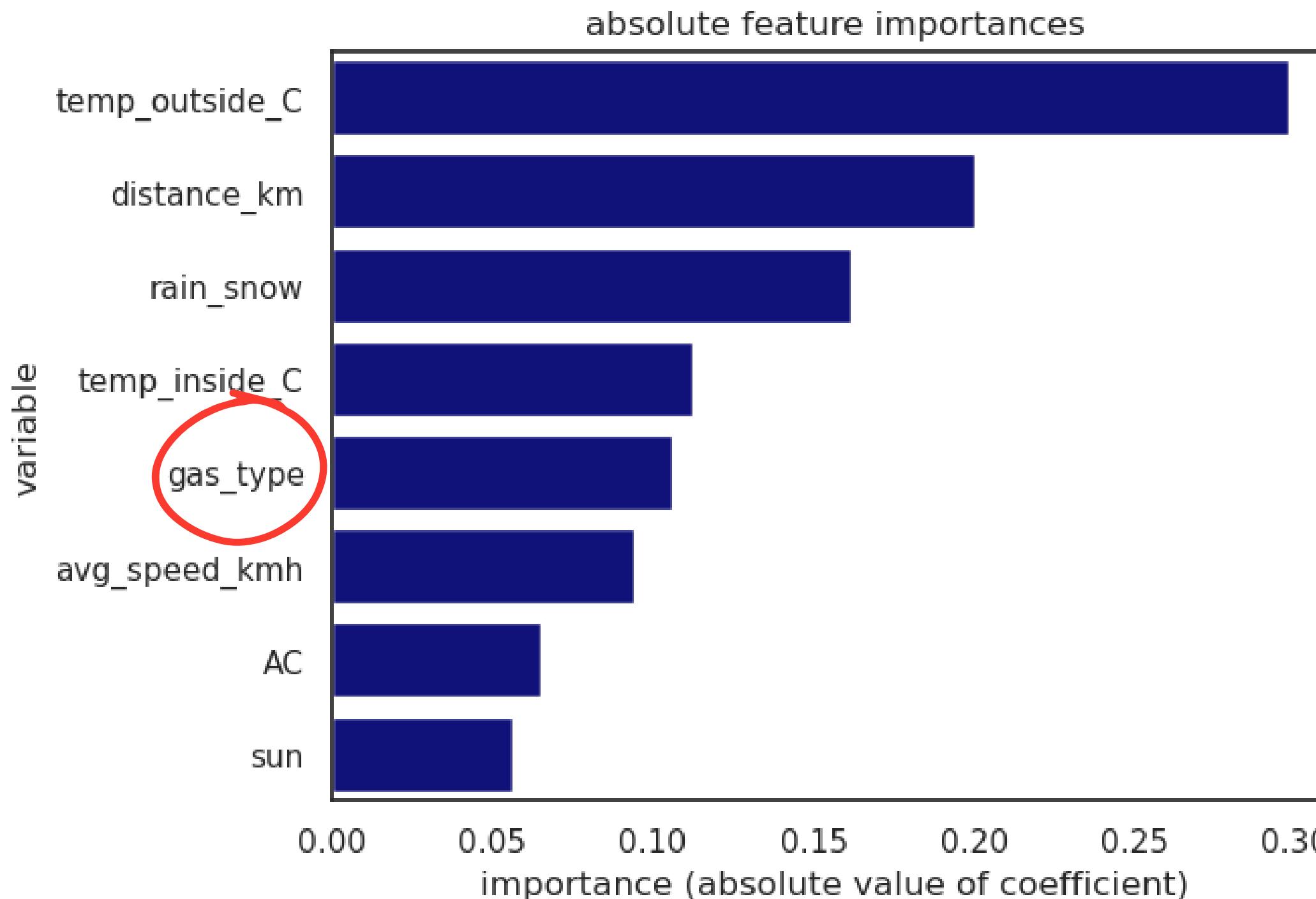
But does this lead to significant savings?

The picture is not quite clear yet.



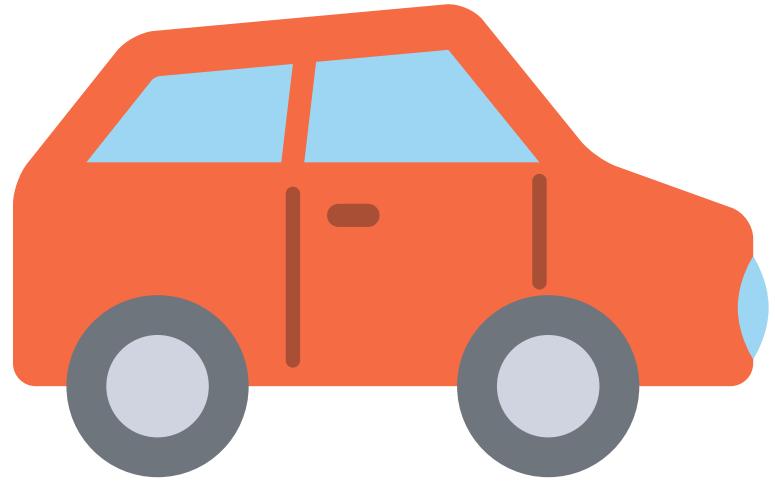


Predicting relative trip costs with a machine learning (OLS) model



Gas type is only the fifth most important feature for predicting the relative costs of a trip

... but it still makes a significant difference!



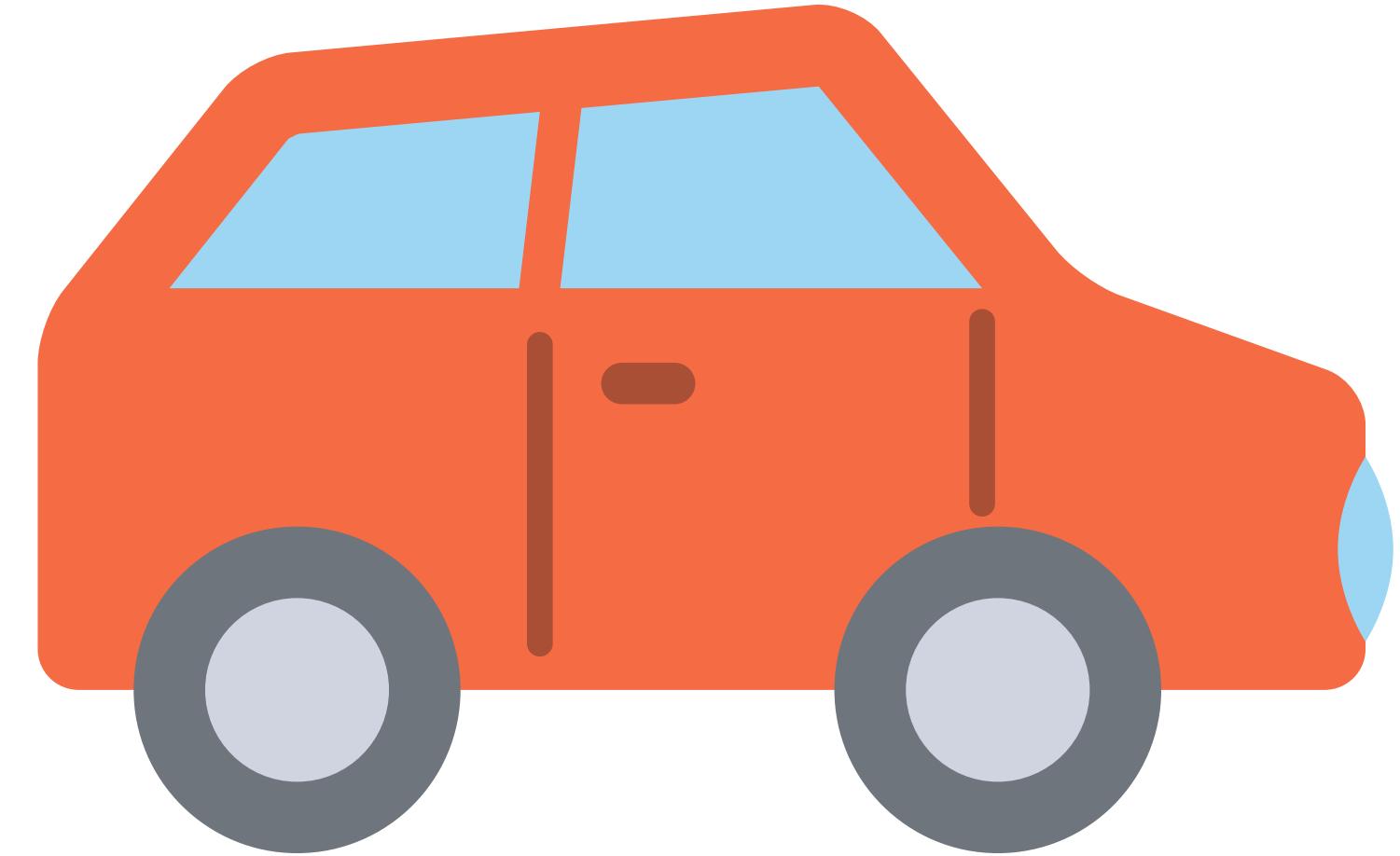
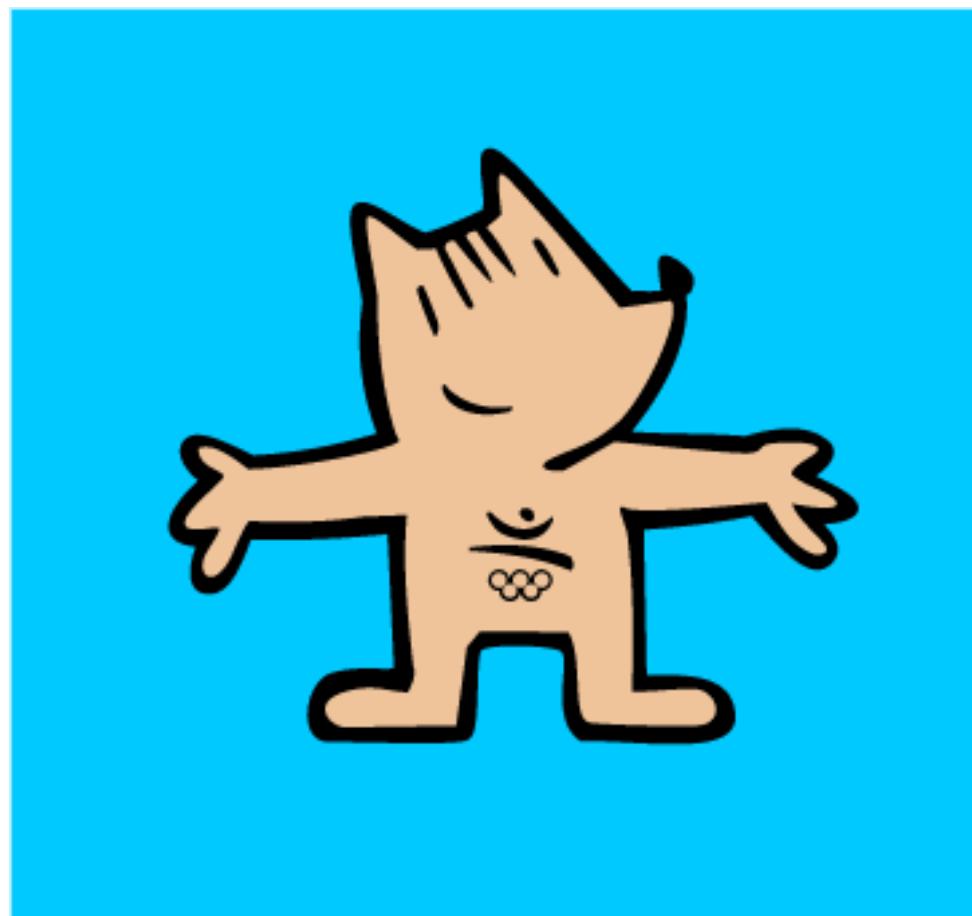
Recommendations

**If you want to save some money,
switch to E10!**

**...However, to perfect our model
and validate the recommendations,
we need additional resources.**



Thank you for your attention!



...and happy holidays :)