

Top branded cars are not a dream anymore!

Save Money! Save Economy!!
Save Environment!!!

THE BENEFITS OF EXPENSIVE USED CARS

- More cars for Less Money
- Less Depreciation
- More Value
- Advanced Safety Features
- Low Insurance Costs

Being home to the [modern car](#), the German automobile industry is regarded as the most competitive and innovative in the world and has the **third-highest** car production in the world. German-designed cars won in the [European Car of the Year](#), the [International Car of the Year](#), the [World Car of the Year](#) annual awards the most times among all countries. The [Volkswagen Beetle](#) and [Porsche 911](#) took 4th and 5th places in the [Car of the Century](#) award.

*Source: https://en.wikipedia.org/wiki/Automotive_industry_in_Germany

Popular trading portals:

- Autoscout24.de
- Mobile.de

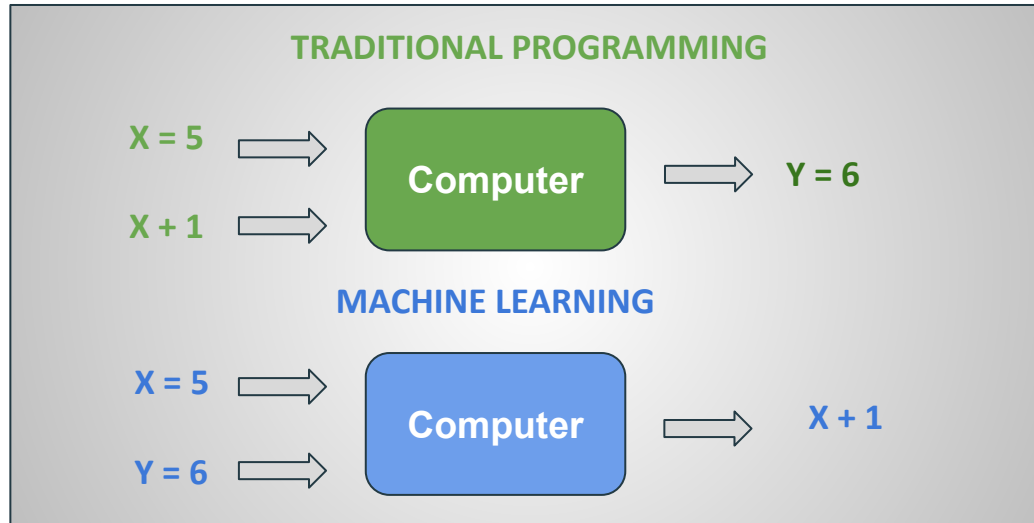
What is machine learning?

Machine Learning is the process of using mathematical models of data to help a computer learn without direct instruction.

How different it is from Traditional Algorithms?

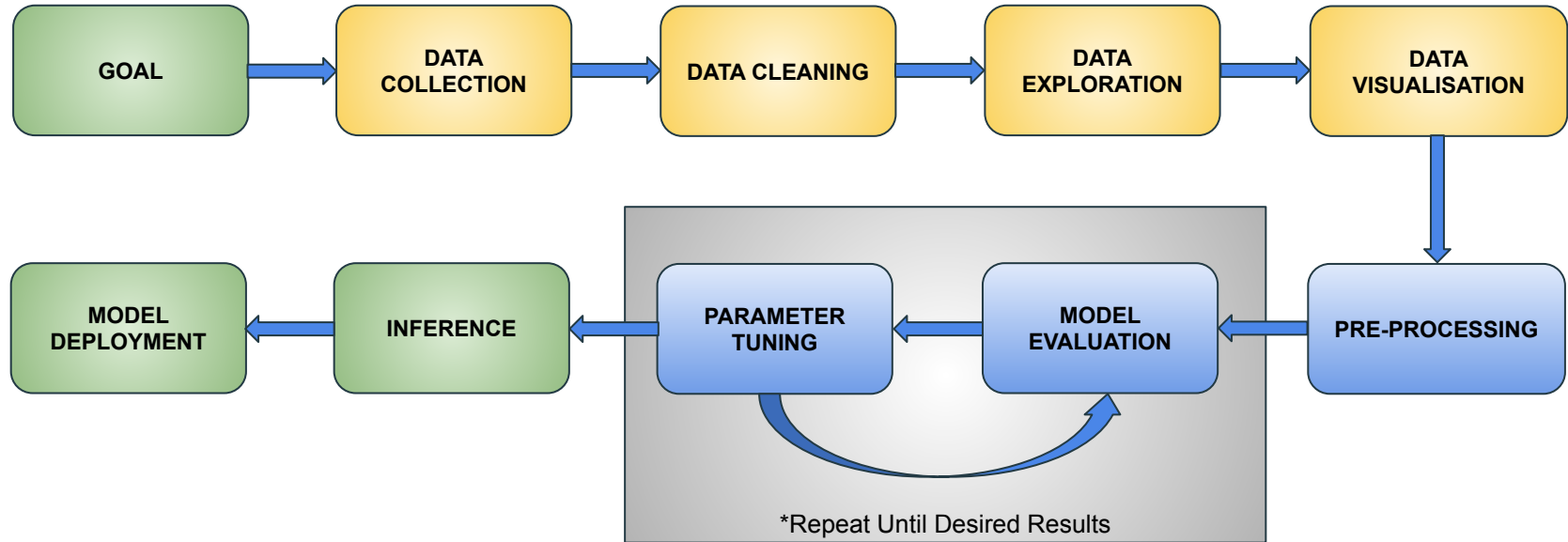
In **Traditional programming** one has to manually formulate/code rules without anyone programming the logic.

In **Machine Learning** the algorithms automatically formulate the rules from the data, which is very powerful.



CAR PRICE PREDICTION USING MACHINE LEARNING

PREDICTION PROCESS



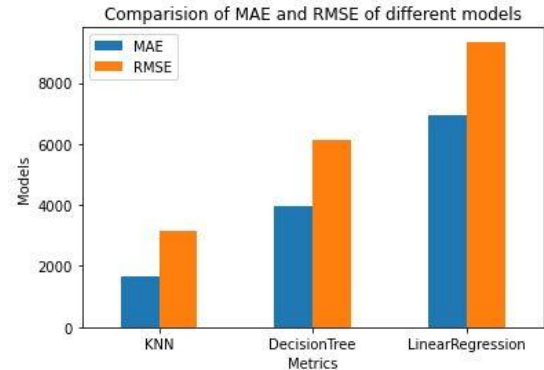
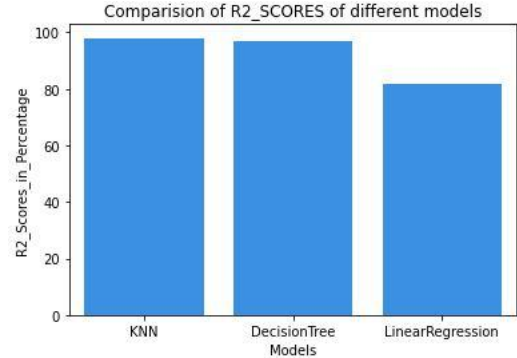
INFERENCES

R2 Score (aka **Coefficient of Determination**) is a very important metric that is used to evaluate the performance of a (regression-based) machine learning model. It works by measuring the amount of variance in the predictions explained by the dataset.

R2 Score = 98% from KNN Model

Mean Absolute Error (MAE) are metrics used to evaluate a Regression Model. Here, errors are the differences between the predicted values (values predicted by our regression model) and the actual values of a variable.

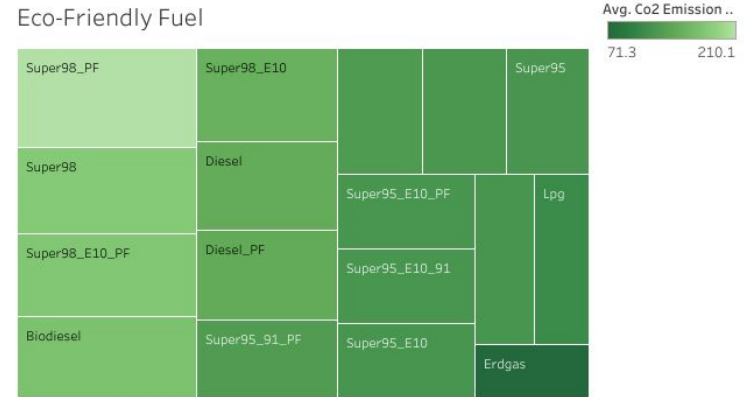
MAE = €1675 from KNN Model



INTERESTING INSIGHTS

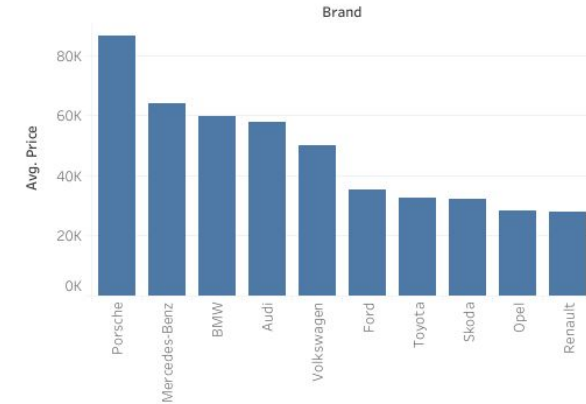
Eco Friendly Fuel

Eco-Friendly Fuel



Price of Cars based on Brands

Brand vs Avg.Price

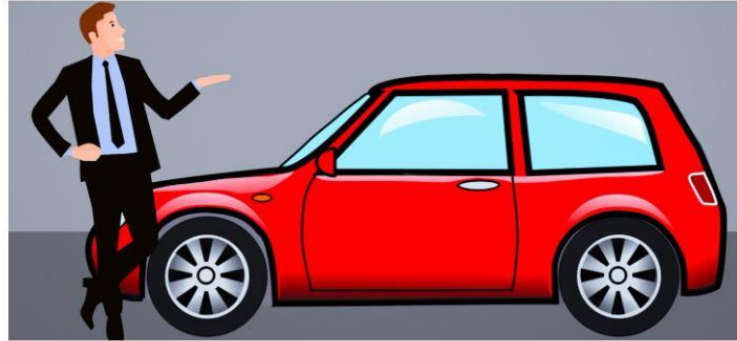


USER INTERFACE

User Interface using **Streamlit** for the end users using the deployed model.

Top Branded Cars Are Not A Dream Anymore !

Price Prediction for Used Cars



Different models have been trained to predict the price of used cars based on certain features such as brand, body type, fuel type, power, displacement, fuel efficiency, etc.

Data Source

- ☒ Test Data
☐ User Entry

Test Data Num:

0 - +

Estimate Price

Price Predicted by KNN_Model (in Euros): 46600

Actual Price from DataSet (in Euros):46970

TOOLS



ENJOY YOUR RIDE