



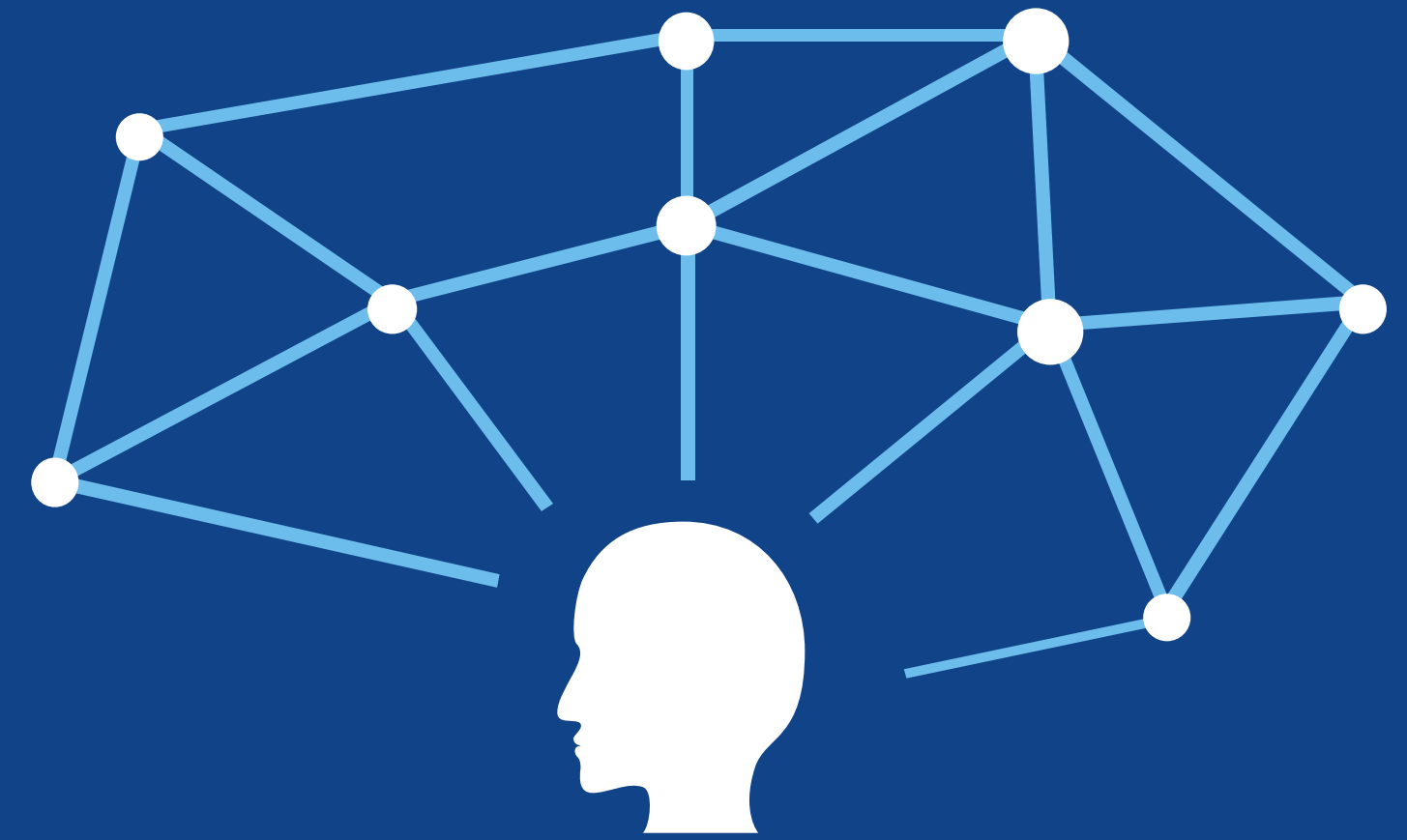
# Predict Price of the Used Cars

Amjad Alotaibi

# Problem Statement

**This project will help predict the price of used cars and help buyers know the real value of cars, so prices cannot be manipulated.**

# Data Source



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I used the dataset from Kaggle.com. It contains information about used Audi cars with many different features such as model, year, price, engine size. This dataset contains more than 10669 records.



# Data Preparing



Missing values

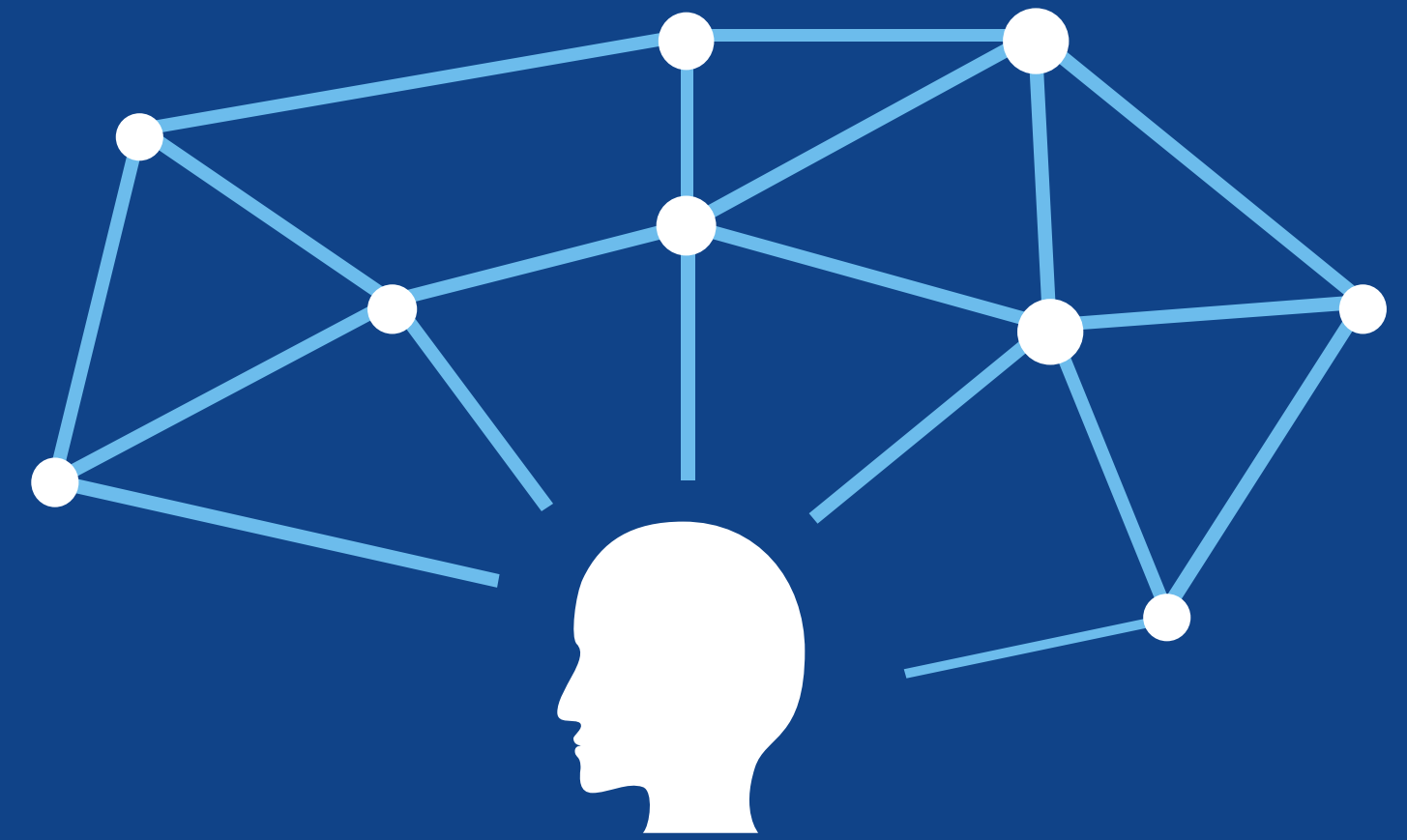


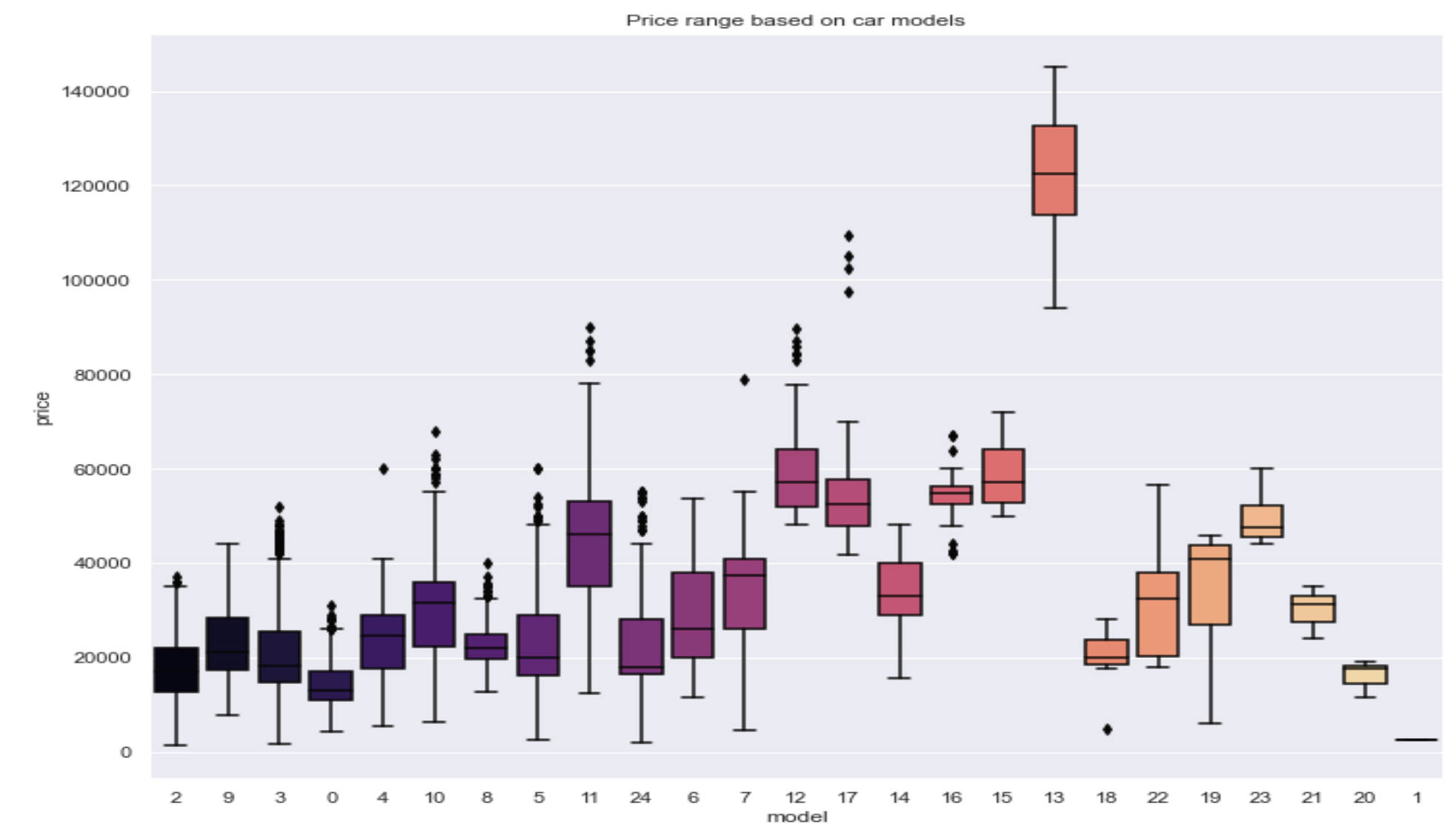
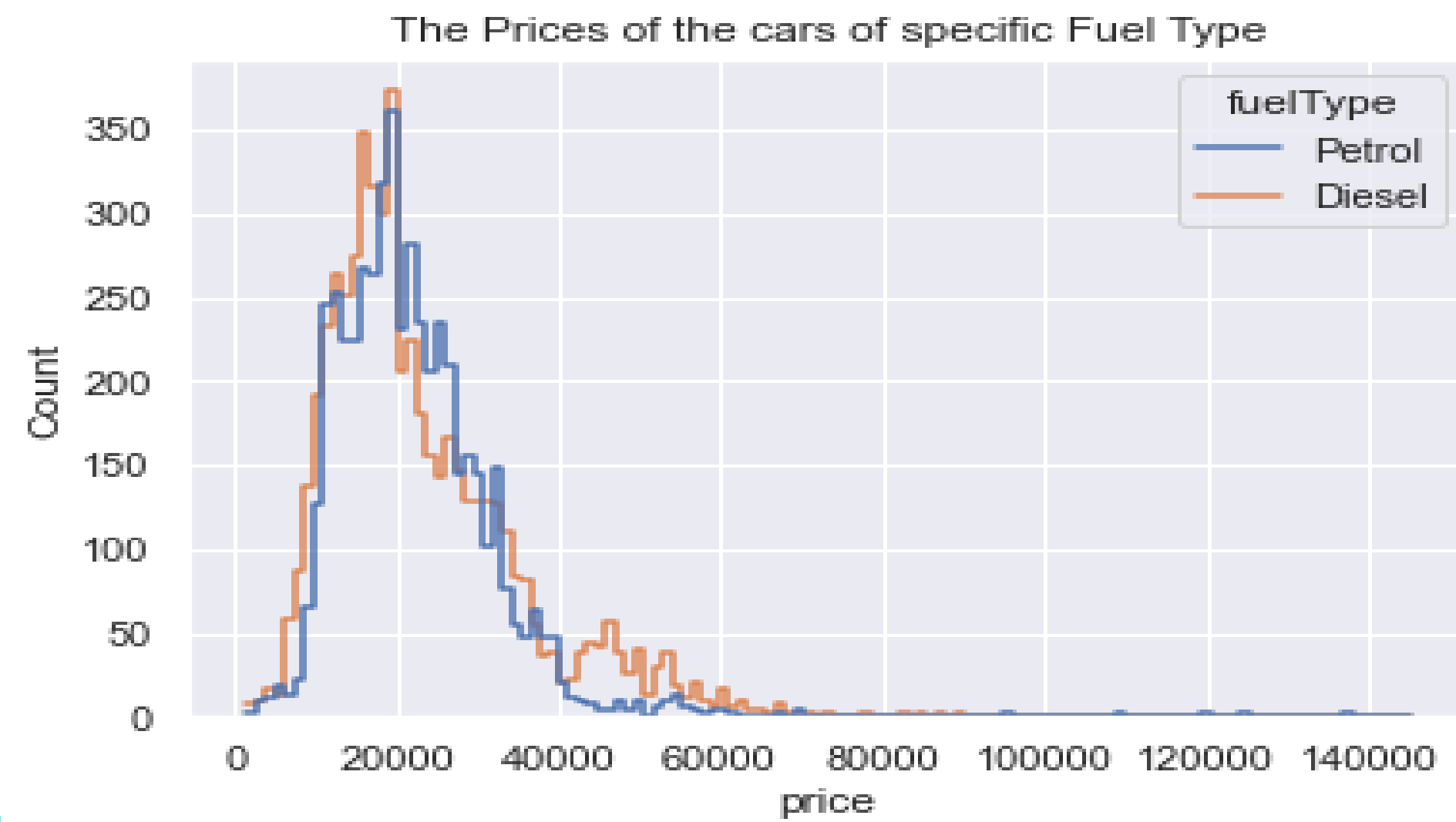
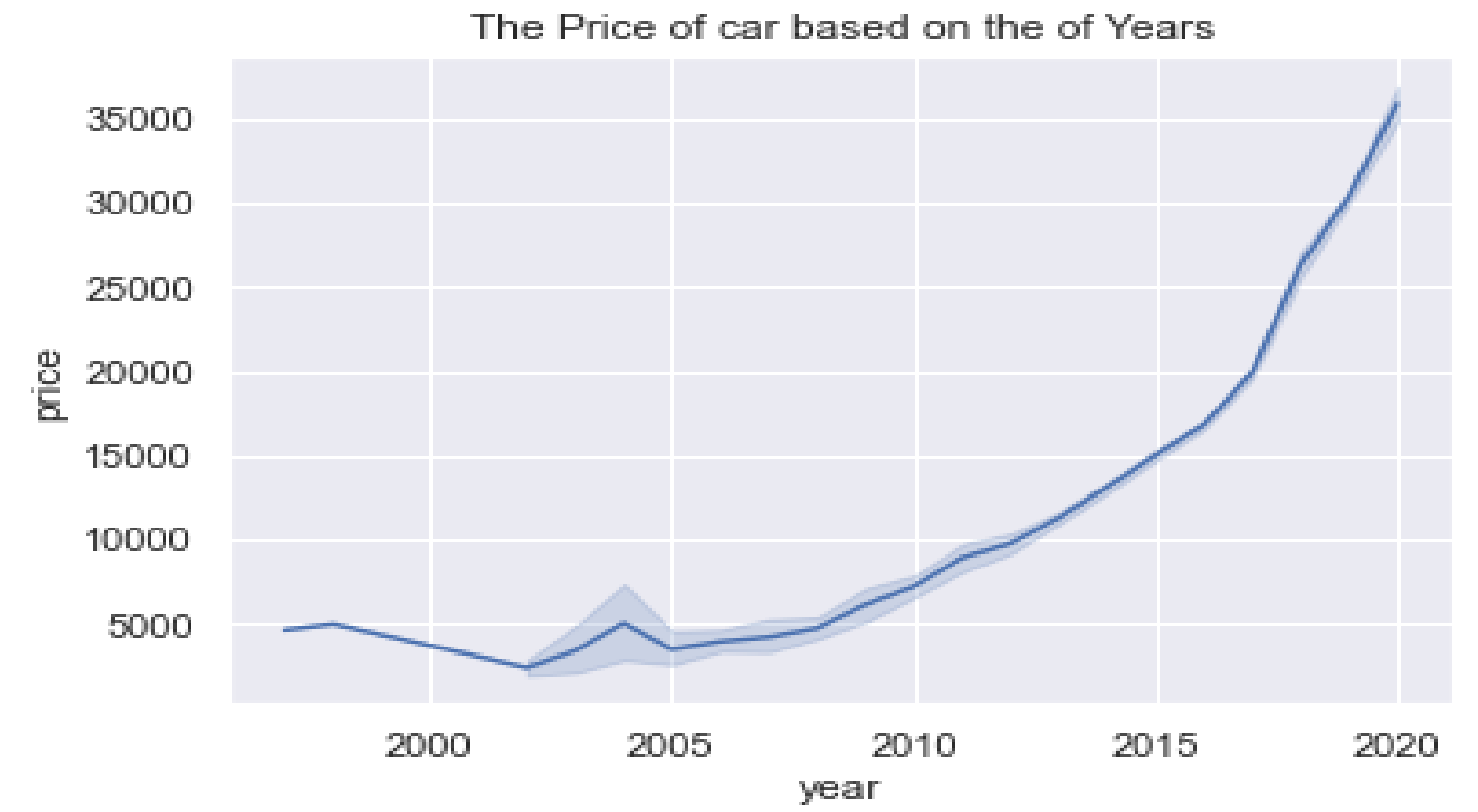
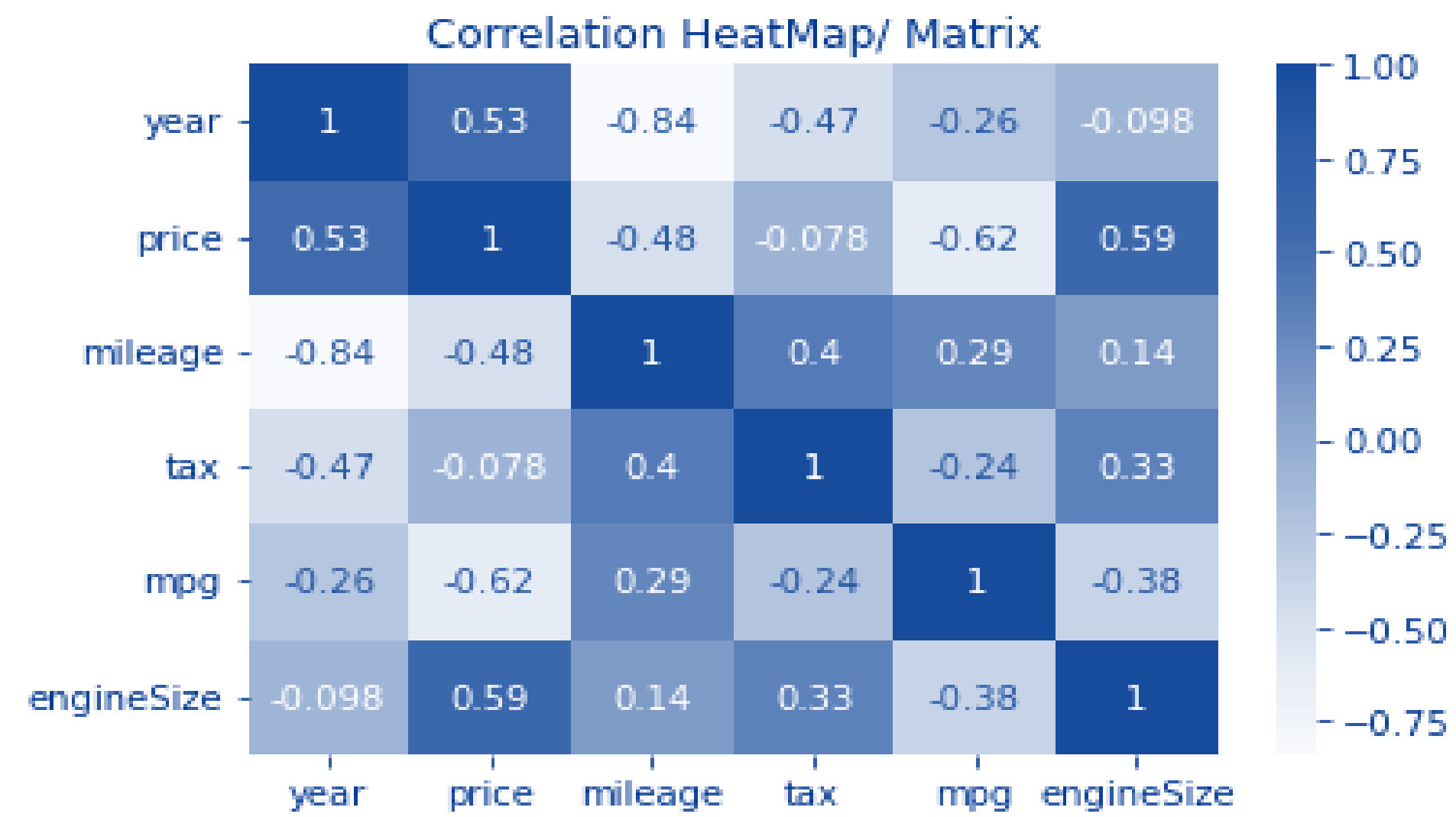
Outliers



Label Encoding Technique

# Exploratory Data Analysis





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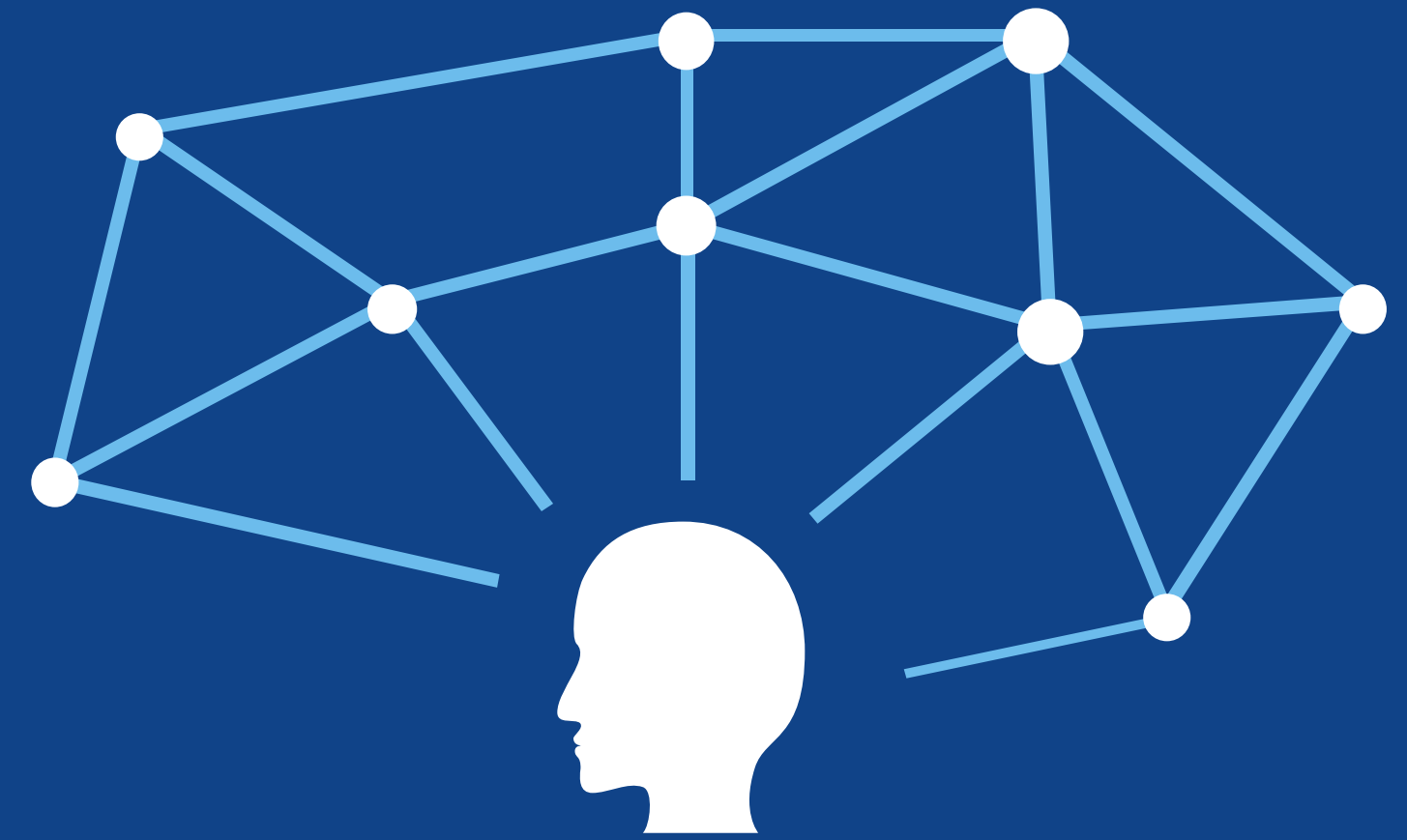
## Train and Test Data

The data was split into two different parts for model creation: 65% Train and 35% Test.





# Models



# The accuracy of models

| Model           | Linear Regression | Random Forest | CatBoost   |
|-----------------|-------------------|---------------|------------|
| <b>Accuracy</b> | <b>80.23%</b>     | <b>95.56%</b> | <b>96%</b> |

# Conclusion

**As it is clear to us, that CatBoost is the most reliable model because it has the highest accuracy rate.**



# Thank You

