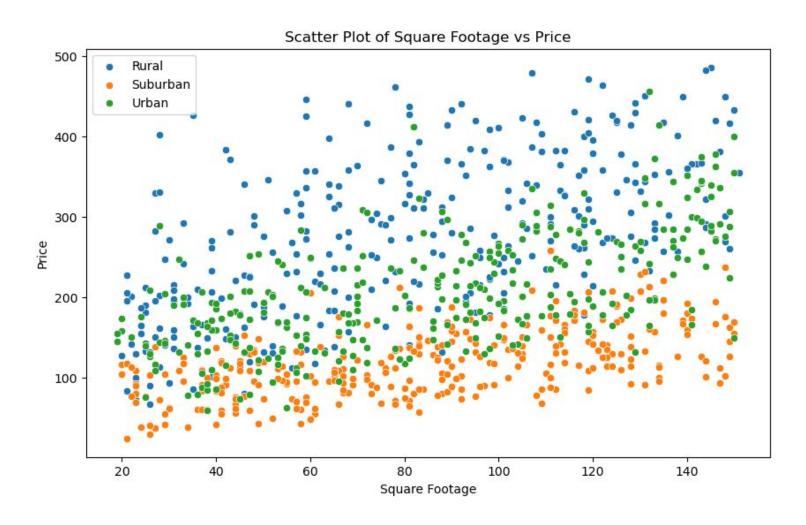


KDDM 1 Project House Price Prediction

Bruno Elie Albanese Hayek José María González Abad Pablo Vallespín Aranguren



Multivariate Analysis







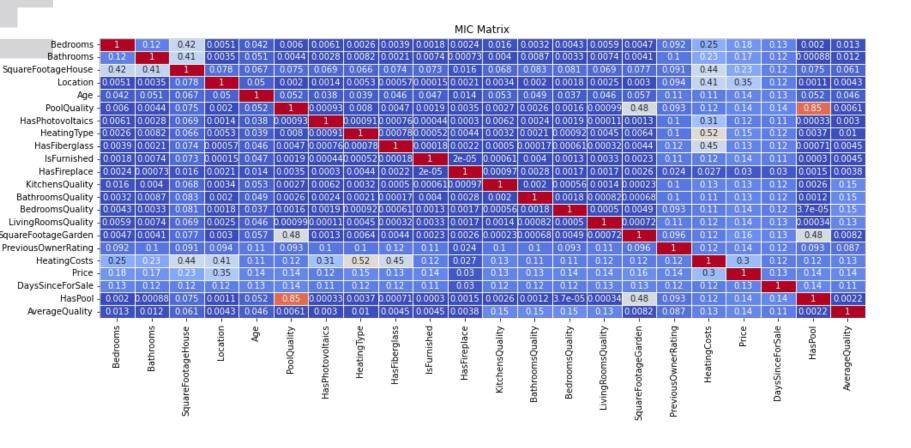
- 0.8

- 0.6

- 0.4

- 0.2

Maximal Information Coefficient (MIC)





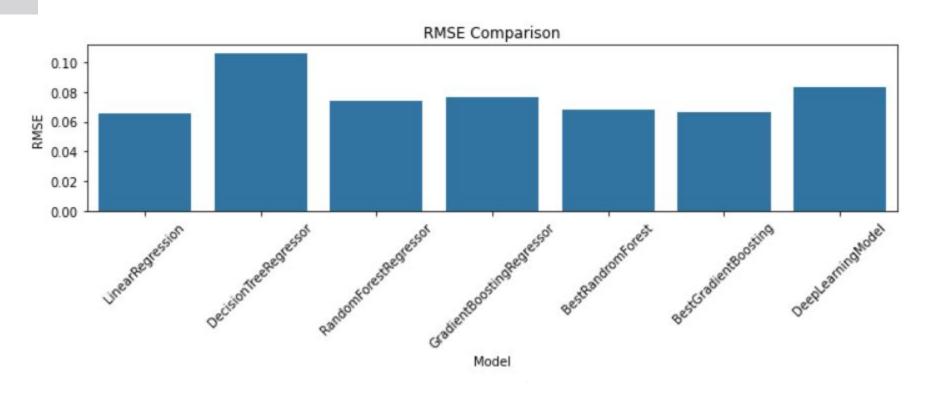
Methods

- Linear Regression.
- Decision Tree.
- Random Forest.
- Gradient Boosting.
- Best Estimator Random Forest.
- Best Estimator Gradient Boosting model.
- Deep Learning.
- Feature selection.
- Best method: Random Forest Regressor.



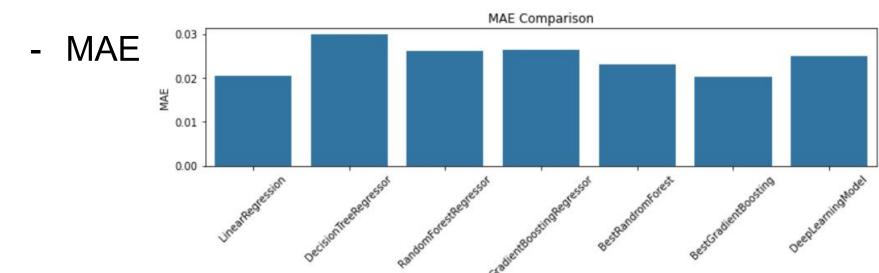
Evaluation

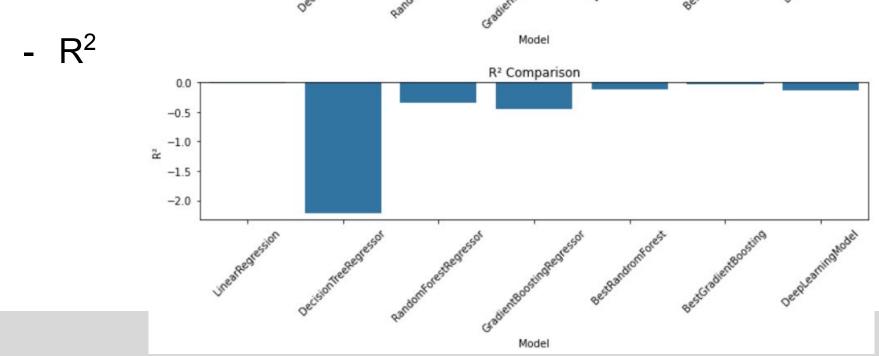
- RMSE





Evaluation







Discussion

 If I have a budget of €100,000, what kind of houses will I be able to buy?

Suburban, with approximately 172 square footage, electric heating, with no pool, with 1 bedrooms, 1 bathroom and 8 square footage of garden.

 How much money can I save if I decide not to get a house with a pool?

~46k EDA Estimation & ~53k Model Estimation

