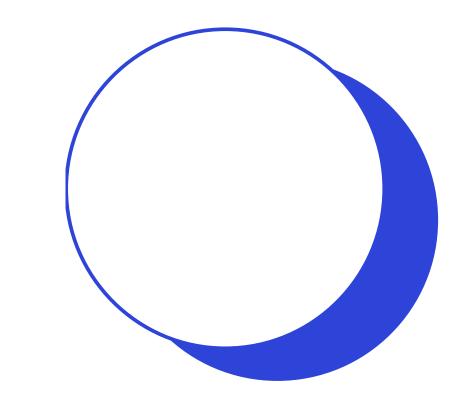
Bank Marketing Campaign Prediction

Classification Models

Today's agenda

- Project overview
- Business Problem
- Data
- Methodology
- Analysis
- Results
- Conclusion
- Recommendations
- Next Step



Project overview

This project focuses on building a classification model on a bank campaign dataset to predict how many will place term deposit in their bank.



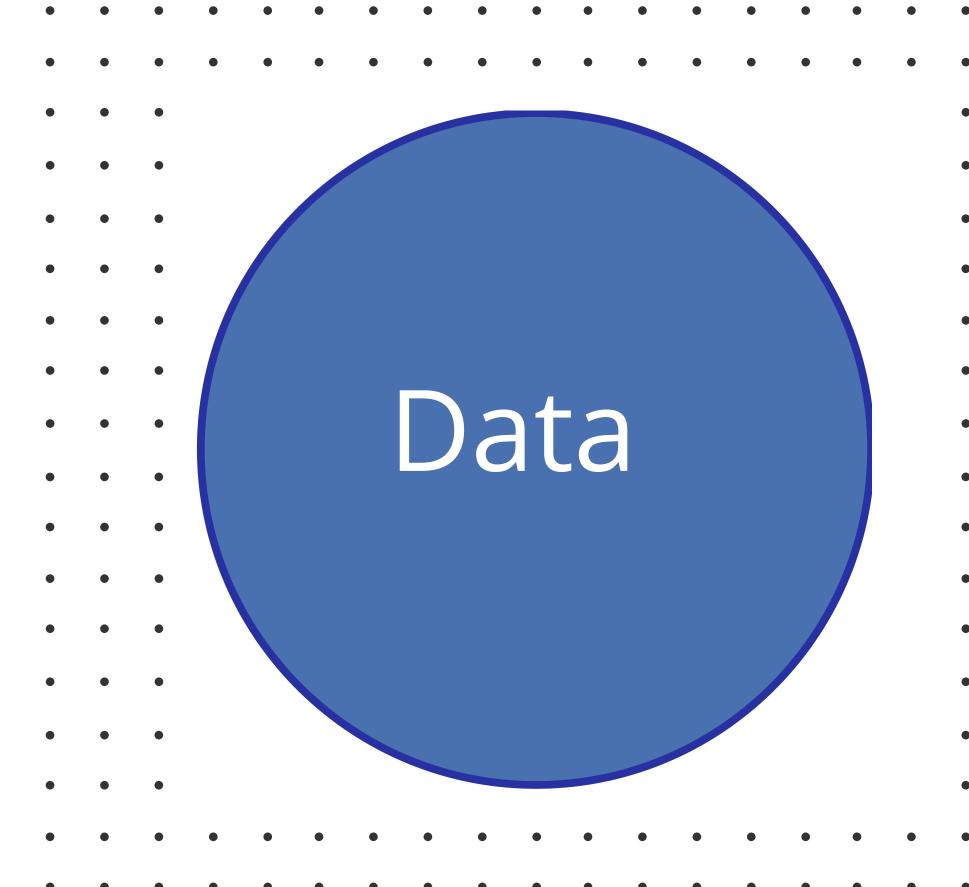
Project overview

This project focuses on building a classification model on a bank campaign dataset to predict how many customers will place term deposits in their bank.

Business Problem

The Portuguese banking organization has conducted a bank marketing campaign to all the customers through phone calls to place a term deposit. Now the organization needs help to know if a customer would place a term deposit or not.





It is a UCI dataset that
describing Portugal bank
marketing campaign
results. It consists of
around 41k bank

customer information.

APPROACH OBTAIN SCRUB **EXPLORE** MODEL INTERPRET

Analysis

Feature

Age

Job

Marital

Analysis

Education

Loan

Contact



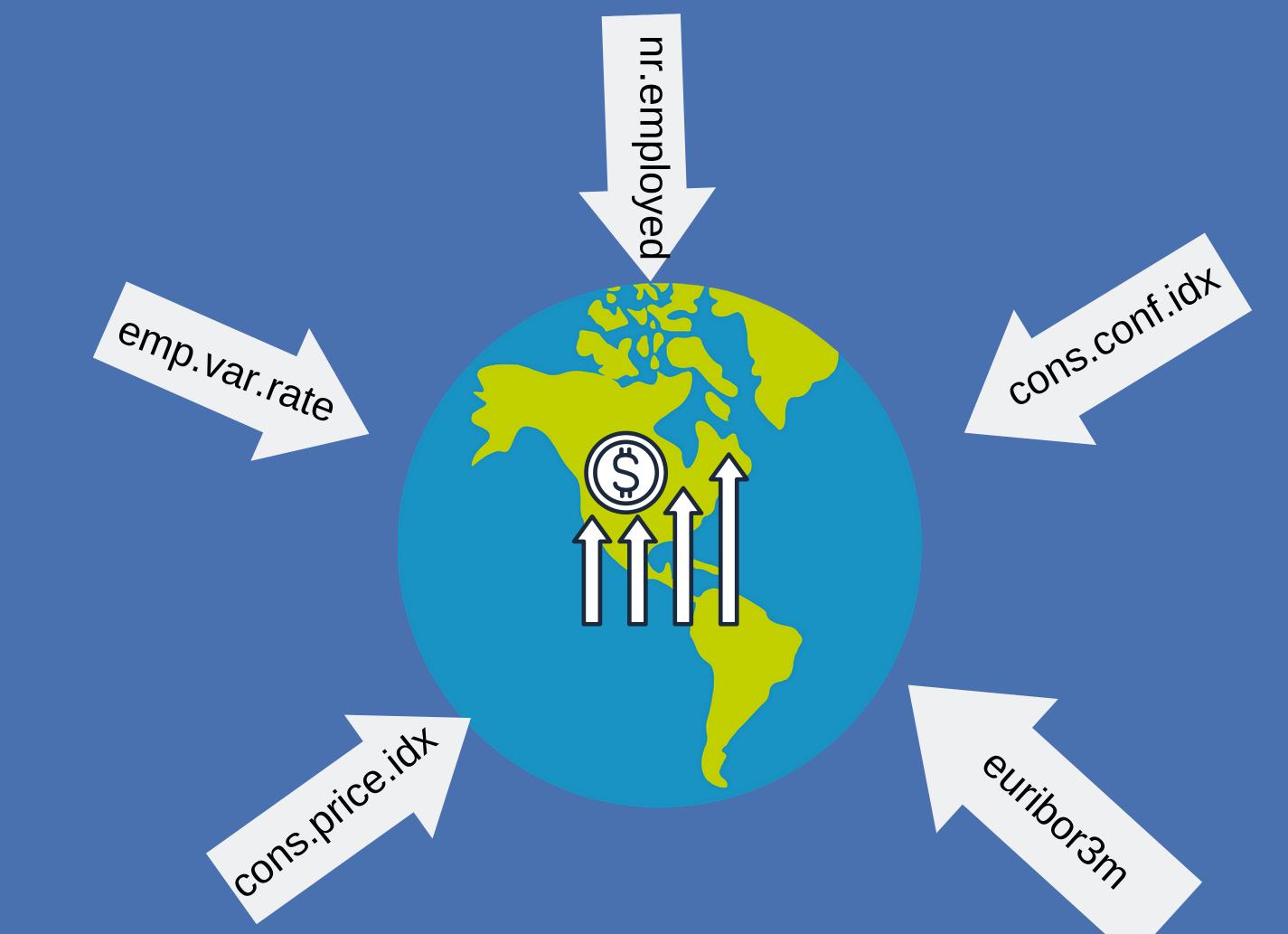
Housing

Poutcome

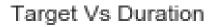
Month

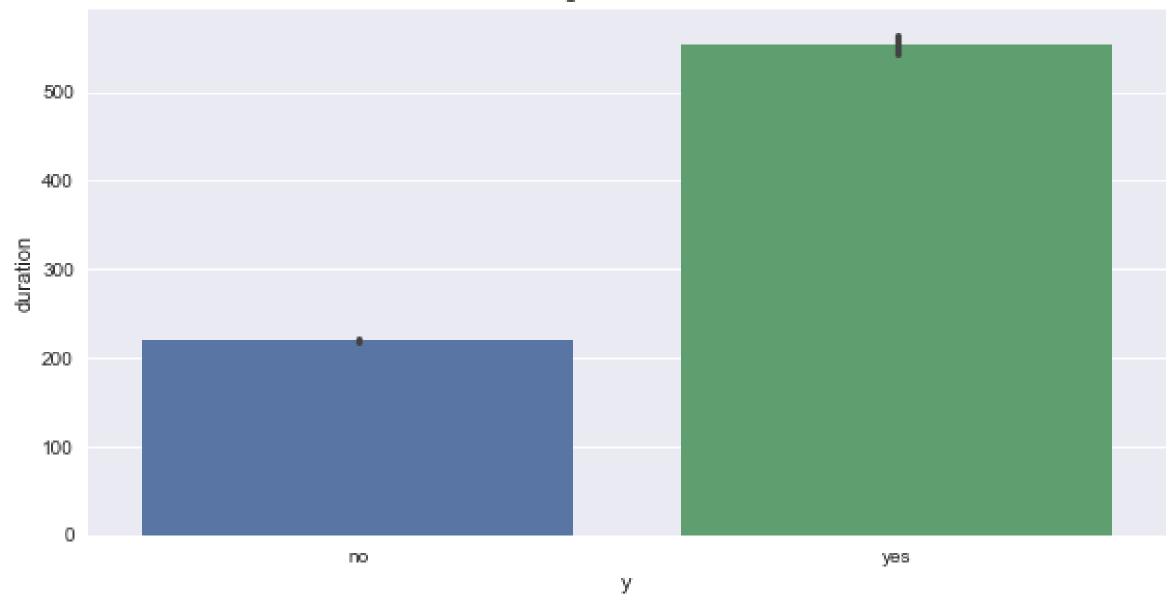
Duration

Campaign

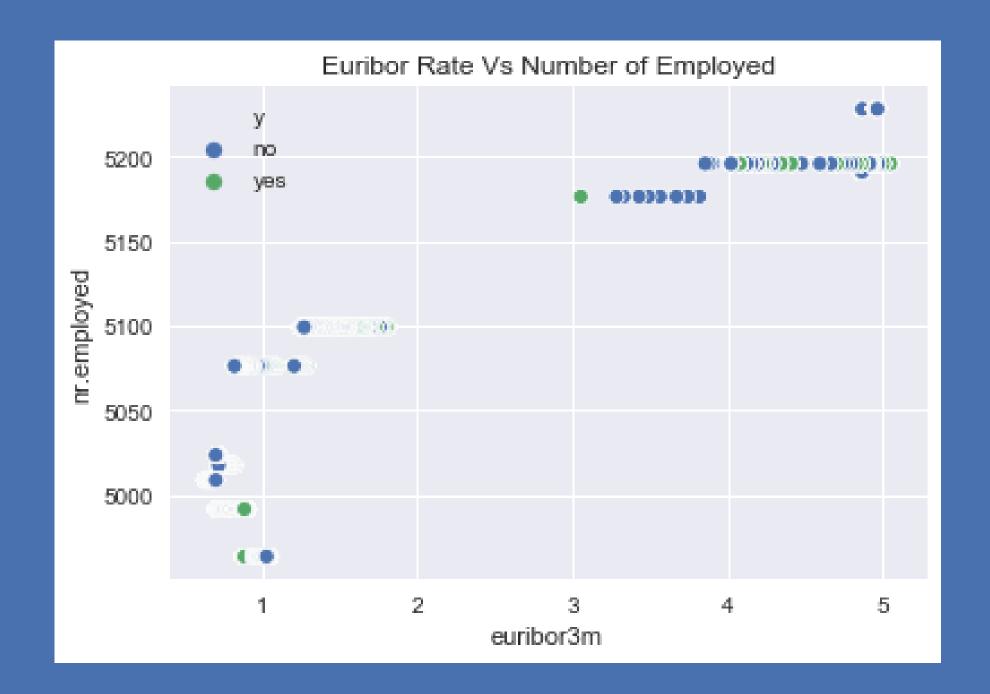


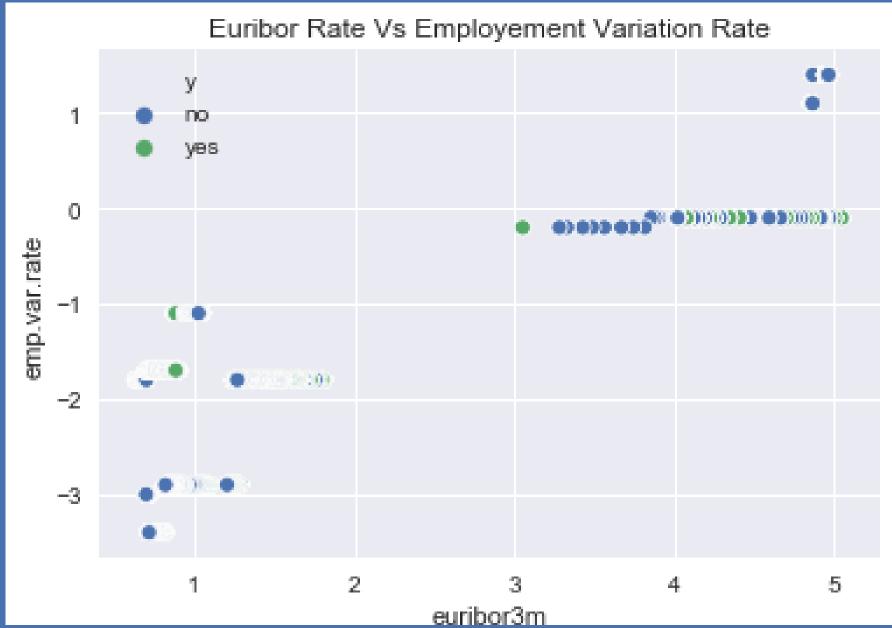
Relationship between the Target variable and the Duration



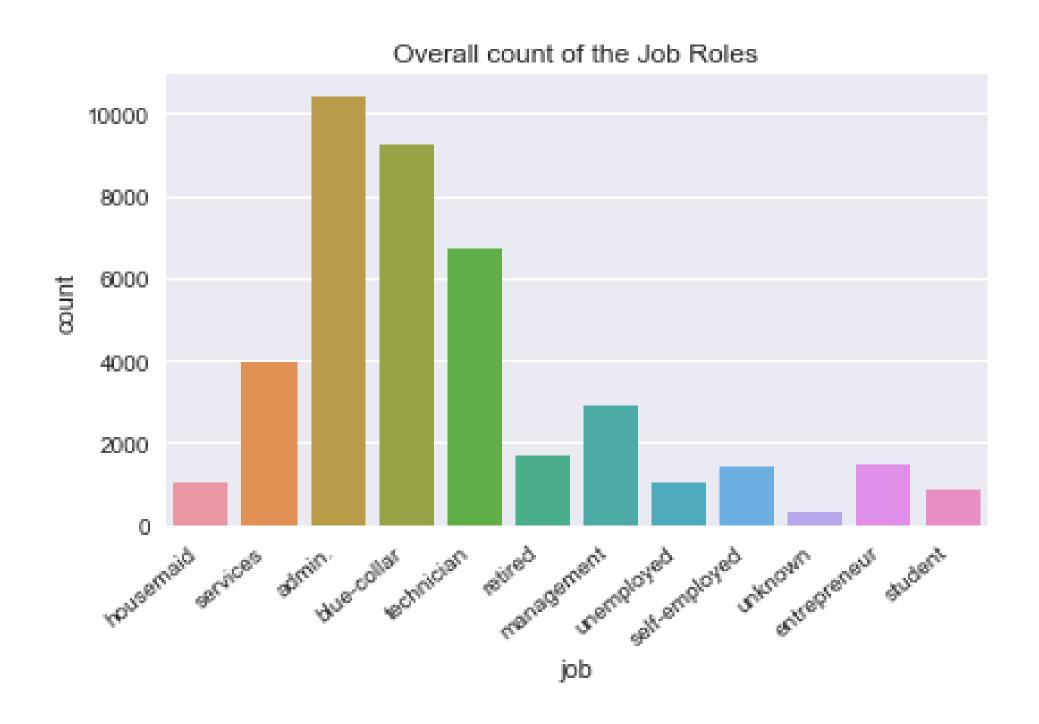


Duration seems to be an important feature in the dataset

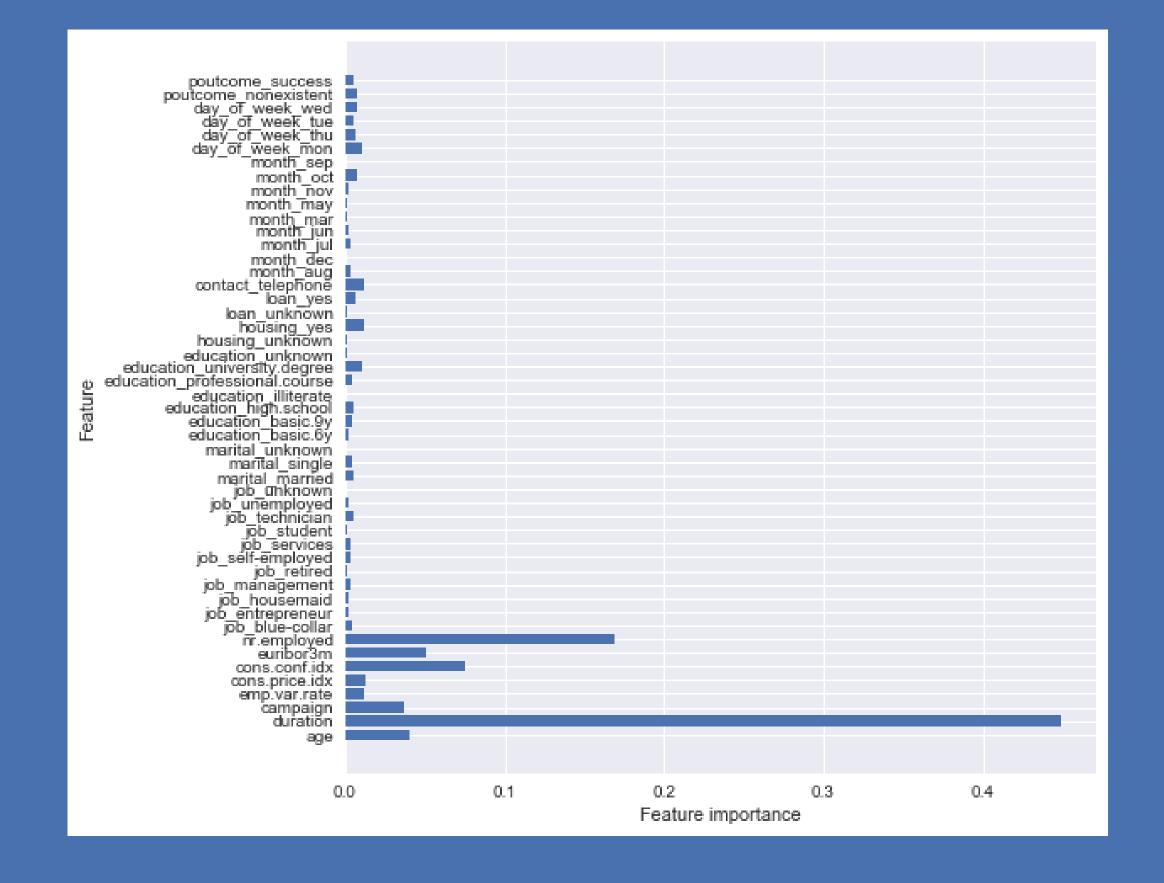




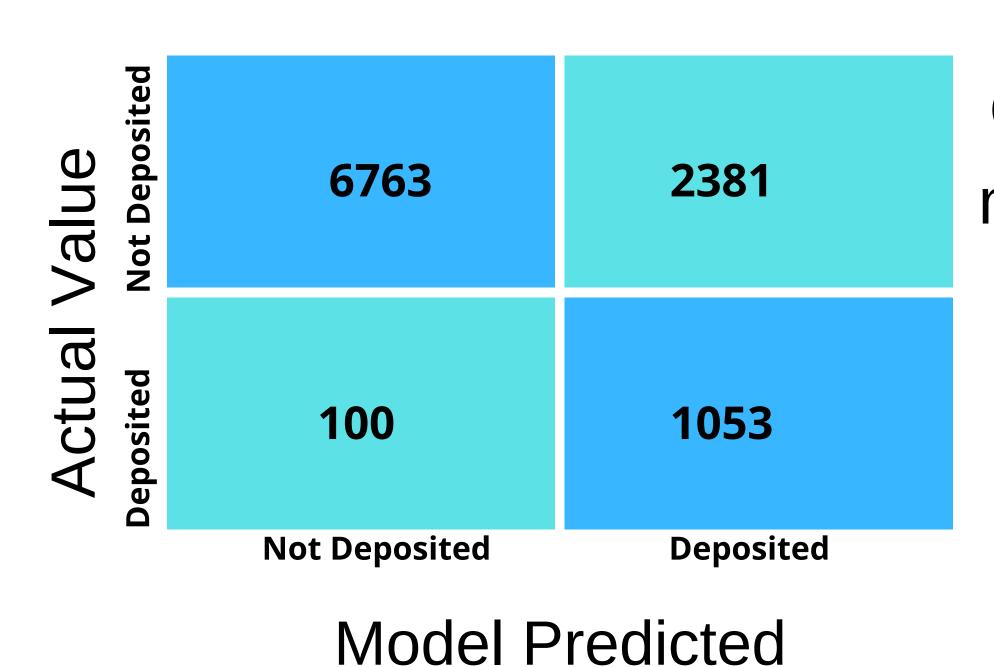
State of country's economy has a huge impact on the customers



Admin roles, Bluecollar jobs and technicians are targeted more in the campaign



Model prediction on feature importance



Count of true deposit made by the customer and how our model predicted it correctly.

Conclusion

- Duration of the call
- Customer's job role
- Model can be used for prediction



- Conducting campaign at the right time
- Targeted Customers
- Education background

Next Step

- Analysis the pros and cons of the campaign
- To build more stable model to reduce false negative rate



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