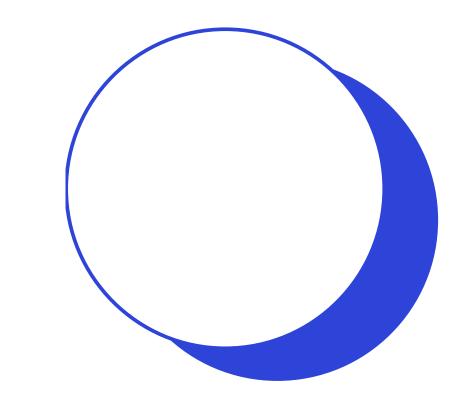
Bank Marketing Campaign Prediction

Classification Models

Today's agenda

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





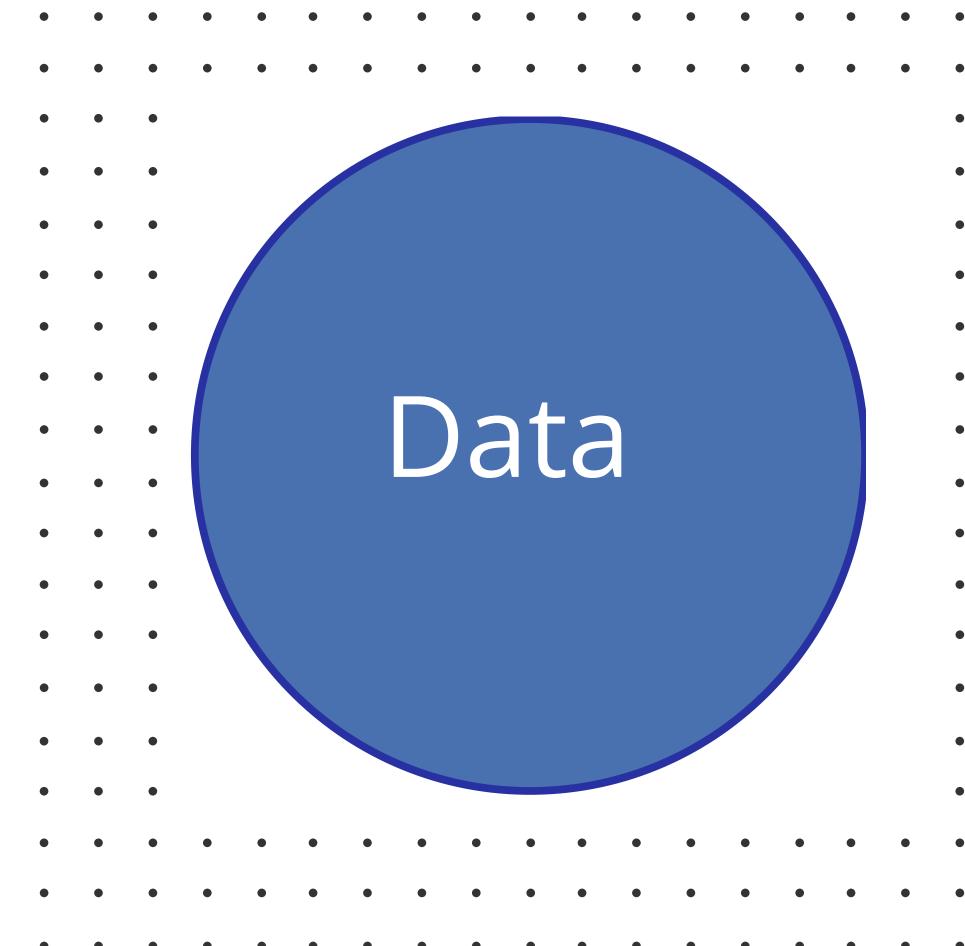
Project overview

This project focuses on building a classification model on a bank campaign dataset to predict how many 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.





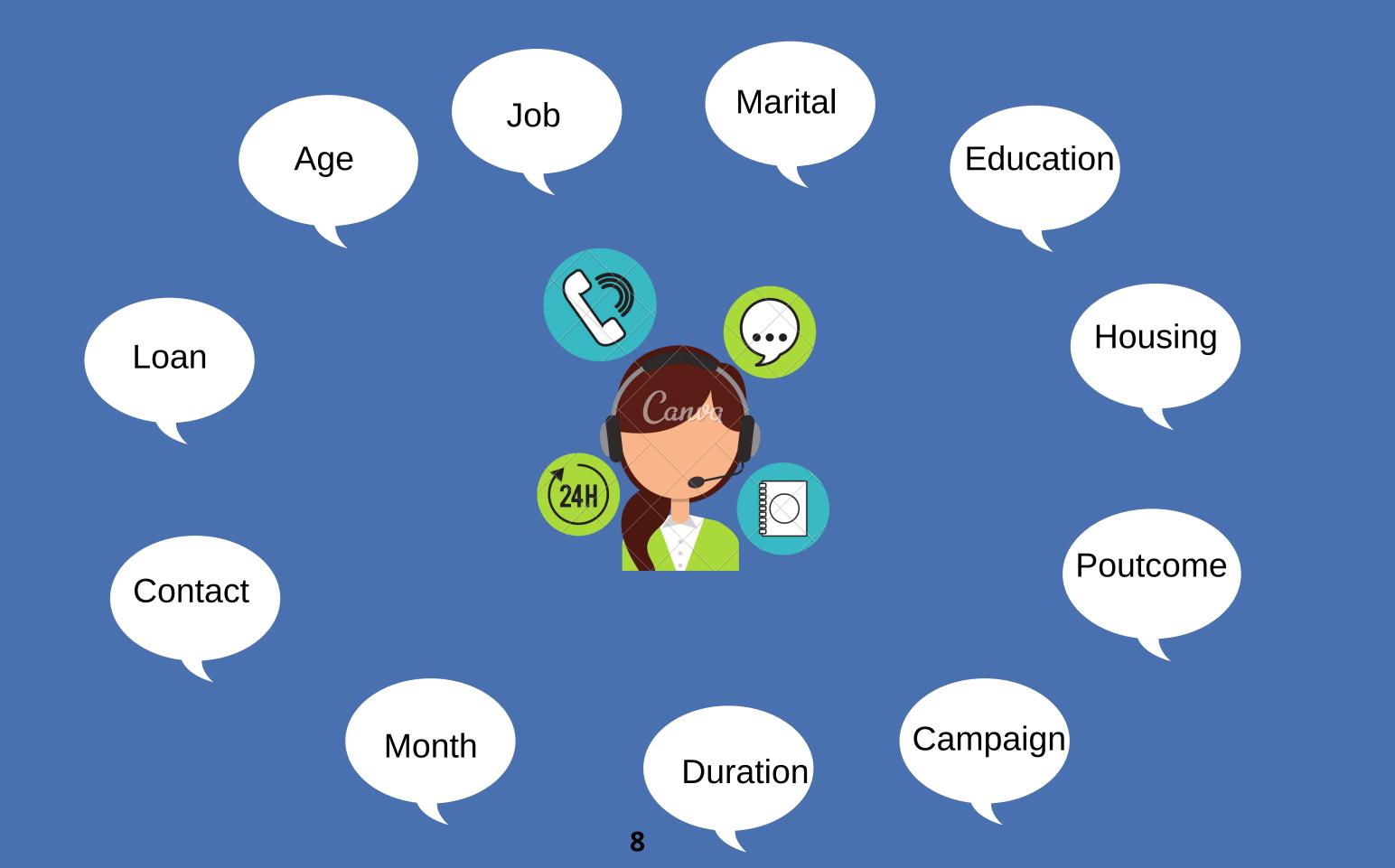
It is a UCI dataset that
describing Portugal bank
marketing campaign
results. It consists of

around 41k bankcustomer information.

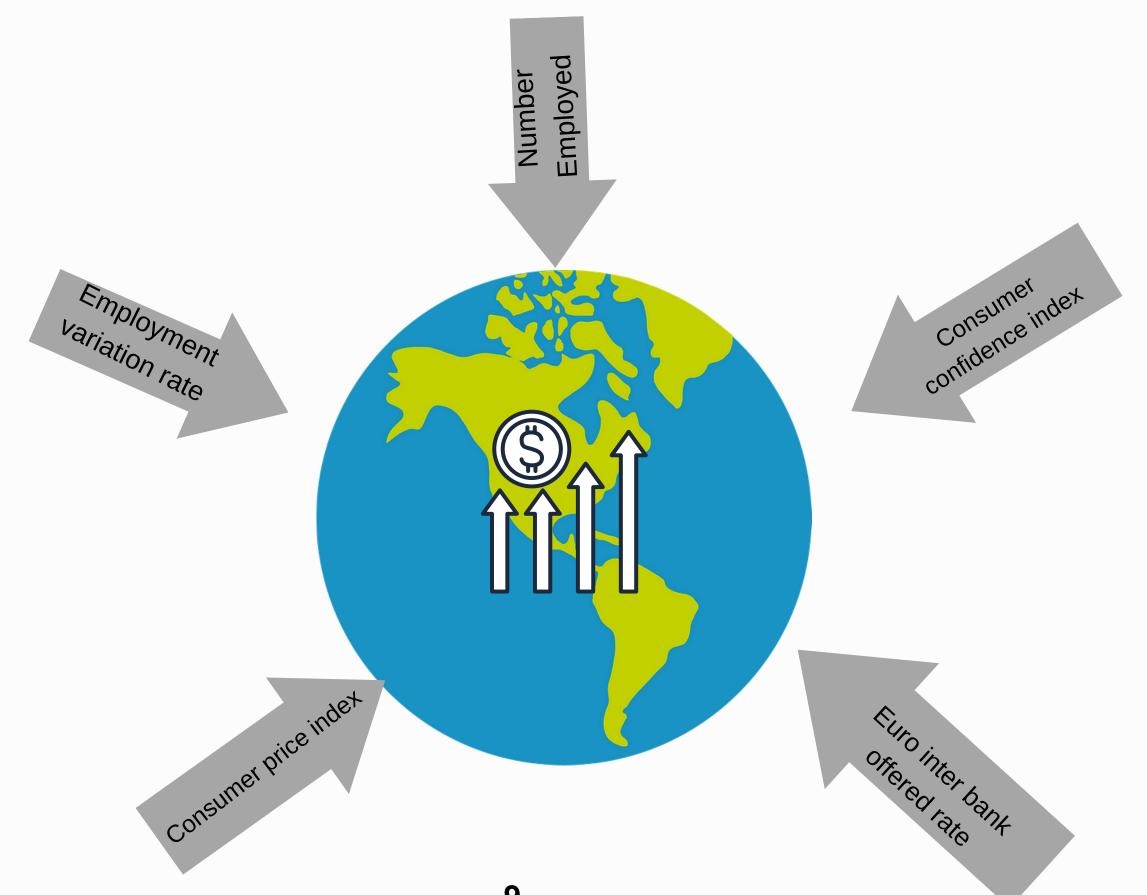
APPROACH OBTAIN SCRUB **EXPLORE** MODEL INTERPRET

Analysis

Information collected from the customer during the campaign

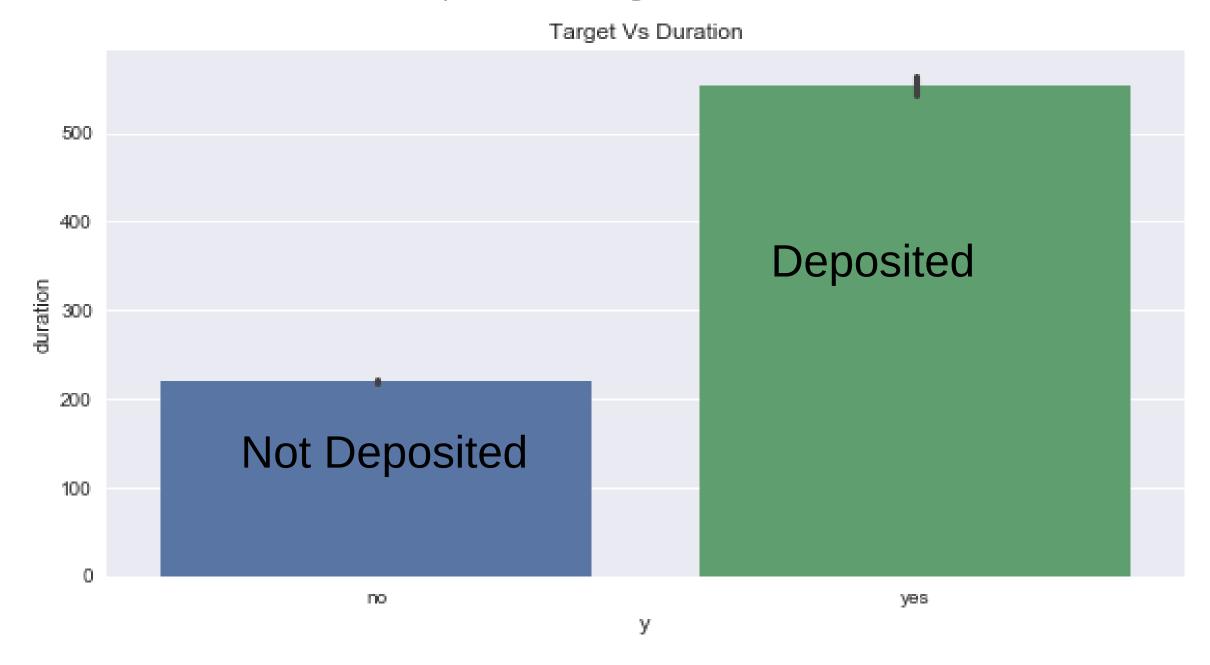


Economy status information



How the call Duration plays a major role in our data



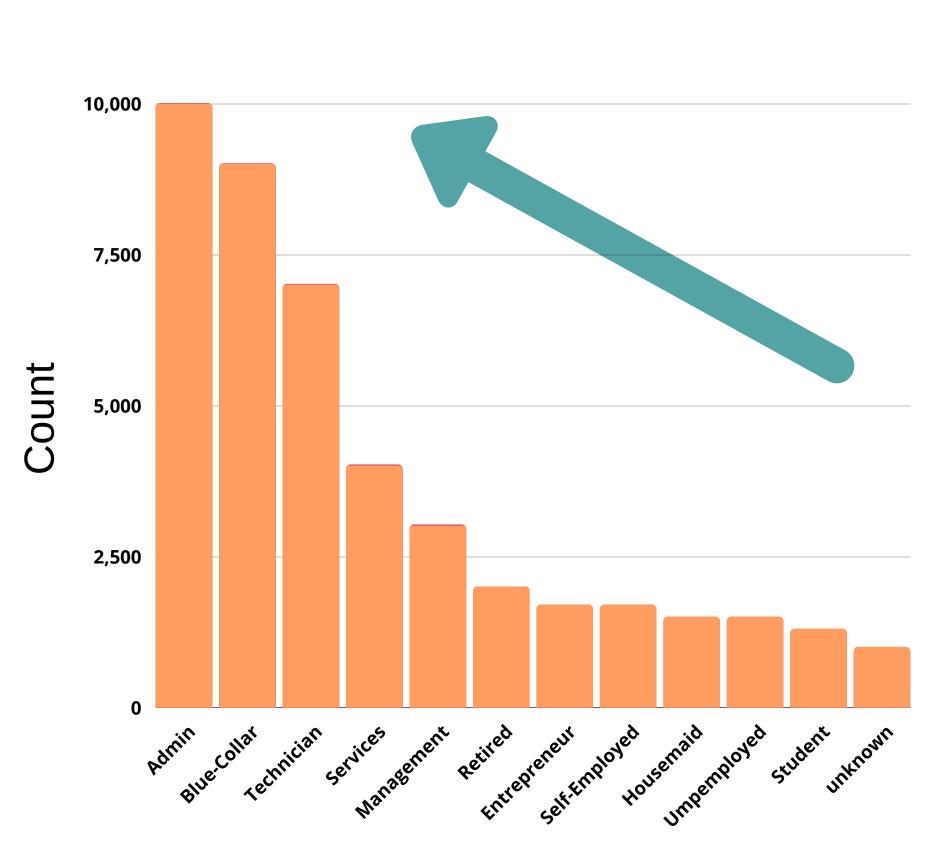


Duration seems to be an important feature in the dataset

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



Overall count of the Job Roles

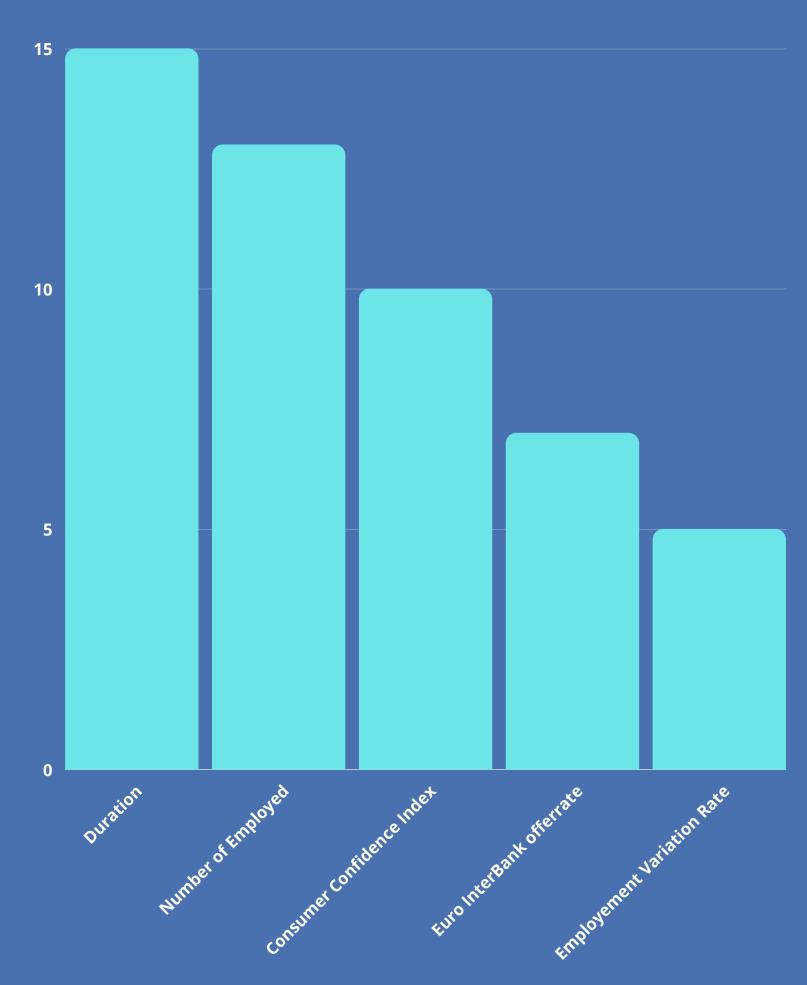


12,500

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

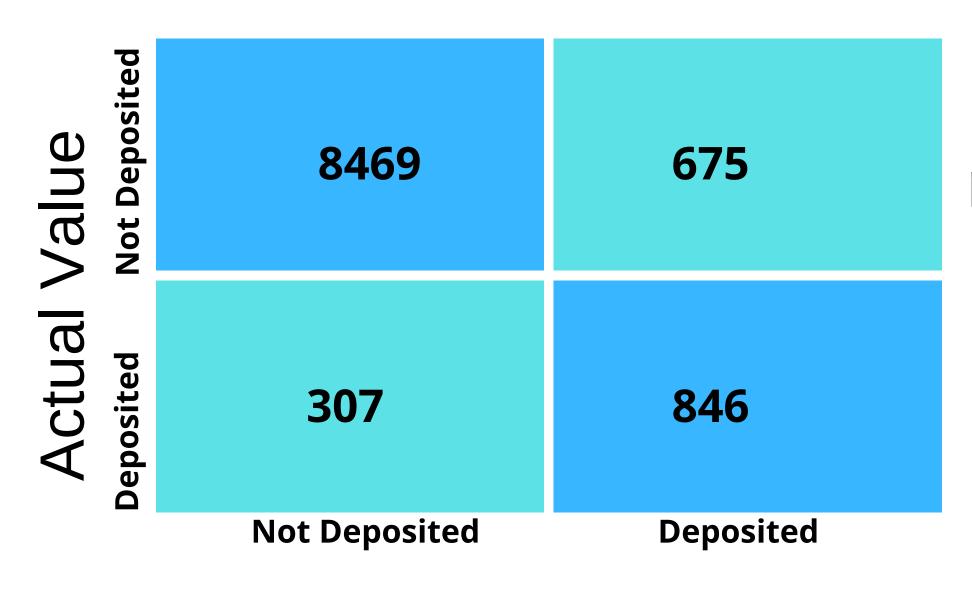
Job

Model prediction on feature importance



Our model predicts the duration of the call as the top feature

Model Result



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

Model Predicted

Conclusion

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



- Conducting campaign at the right time
- Target 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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