

# Bank Customers Churn Classification

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## Abstract:

Using classification techniques, we will provide information that will help banks in determining the reasons why clients decide to close their accounts so this information will help the bank deal with those problems and keep their clients.

## Data:

The data that will be used in this project has been taken from kaggle website (<https://www.kaggle.com>). It includes data such as: (CustomerId, CreditScore, Gender, etc.) for each bank customer. Our target is 'Exited' which is indicated as 1 if the client left and 0 if he/she stays.

## Algorithms:

After we loaded our data, we transformed it into a data frame, we have done the cleaning then we did EDA. After that we used sklearn library to use classification models, we tried LogisticRegression, KNN, RandomForest and Decision Tree. Also we solved the imbalanced problem, after that we used stacking and xgbClassifier.

## Tools:

- Python, Jupyter notebook
- NumPy, Pandas
- Matplotlib, Seaborn
- Sklearn

## Communication:

We will share our work in our github accounts

- <https://github.com/DimahAlbunayyih>
- <https://github.com/rahaftech/ClassificationProject>