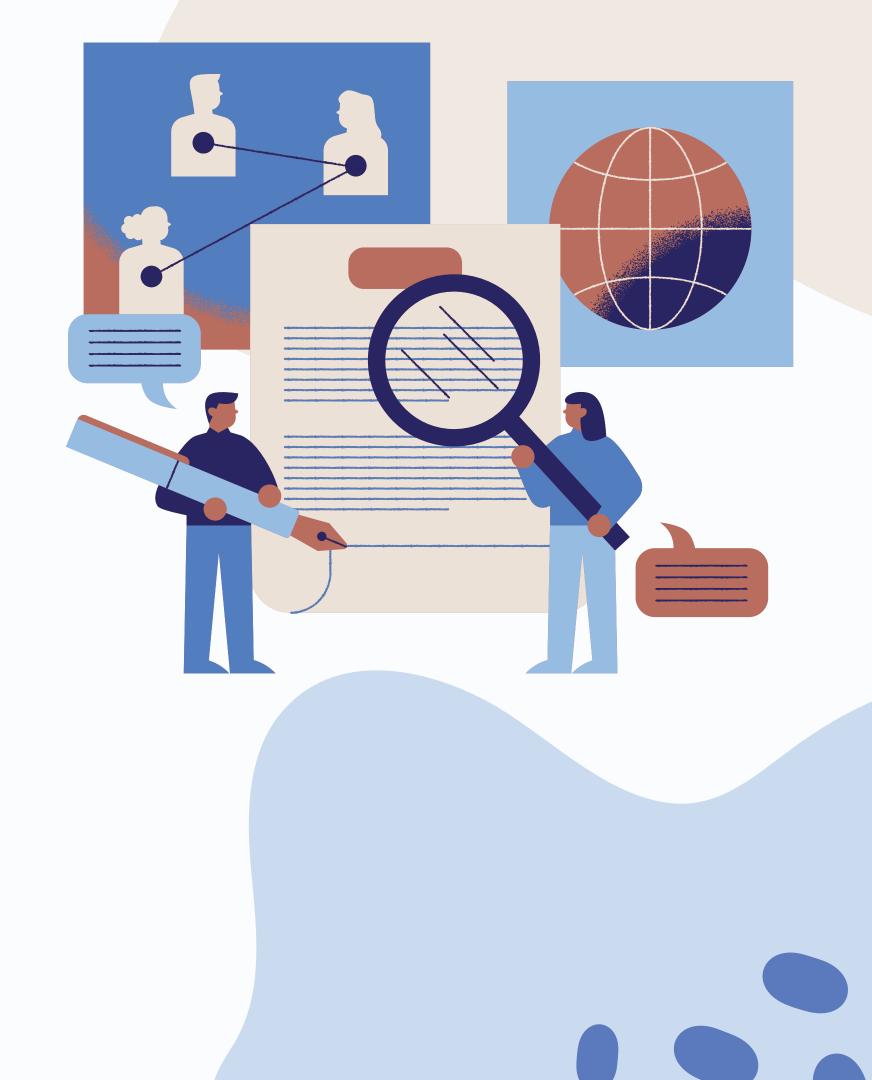
Predicting Customer Churn in the Banking Industry

Prepared by

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Ankush Mehta
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Pruthvish Patel
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Introduction & objectives

Identify Key
Drivers of
Churn

Build a predictive Model

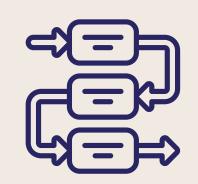
Identifying why customers churn and devising data-driven ways for retention.







Methodology





Dataset

- 10,000 rows
- 12 columns
- Kaggle



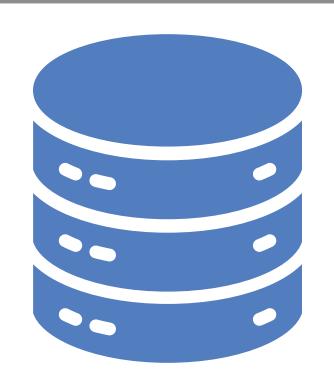
Tools and Libraries

Python

- Pandas
- Matplotlib
- SKLearn



Logistic Regression Model



Model Evaluation

- Confusion matrix
- Accuracy



1 QExplore Data

Load customer info and explore

Transform & Encode

Clean and encode key features

S'Train Model

Standardize and split data

Model evaluation

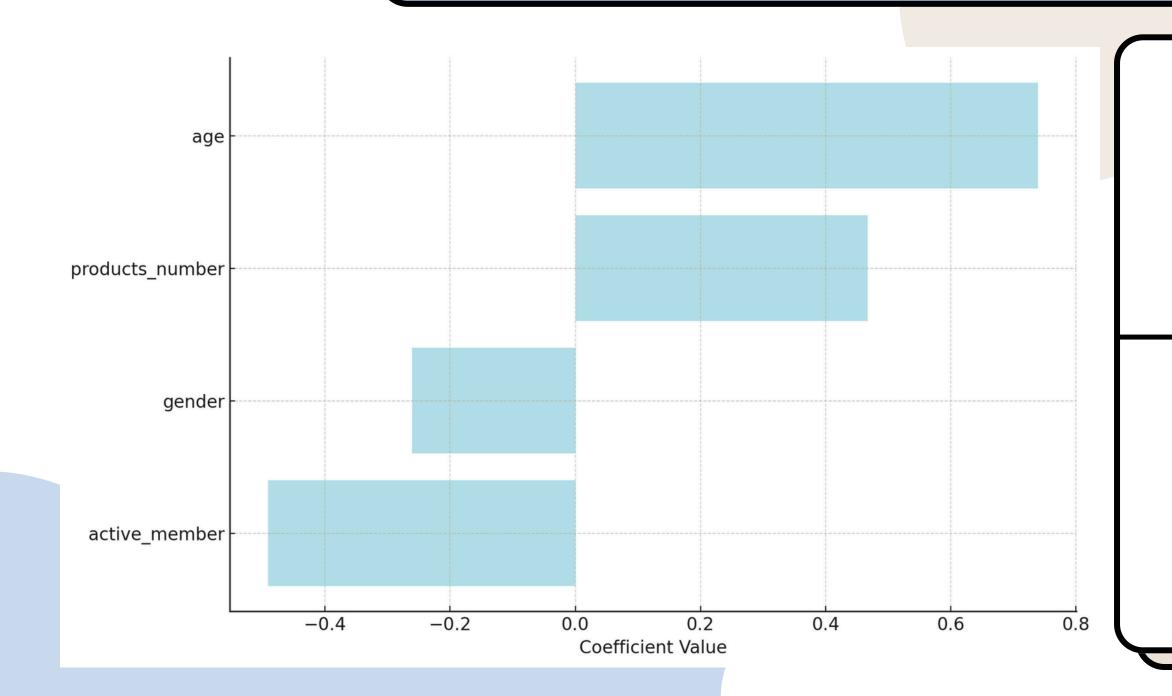
Accuracy and strategies
Precision

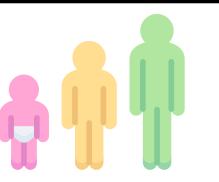
SBusiness
Impact

Predict churn and tailor retention strategies

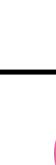


Analysis & 1110 Interpretation 11119





Age +0.7388



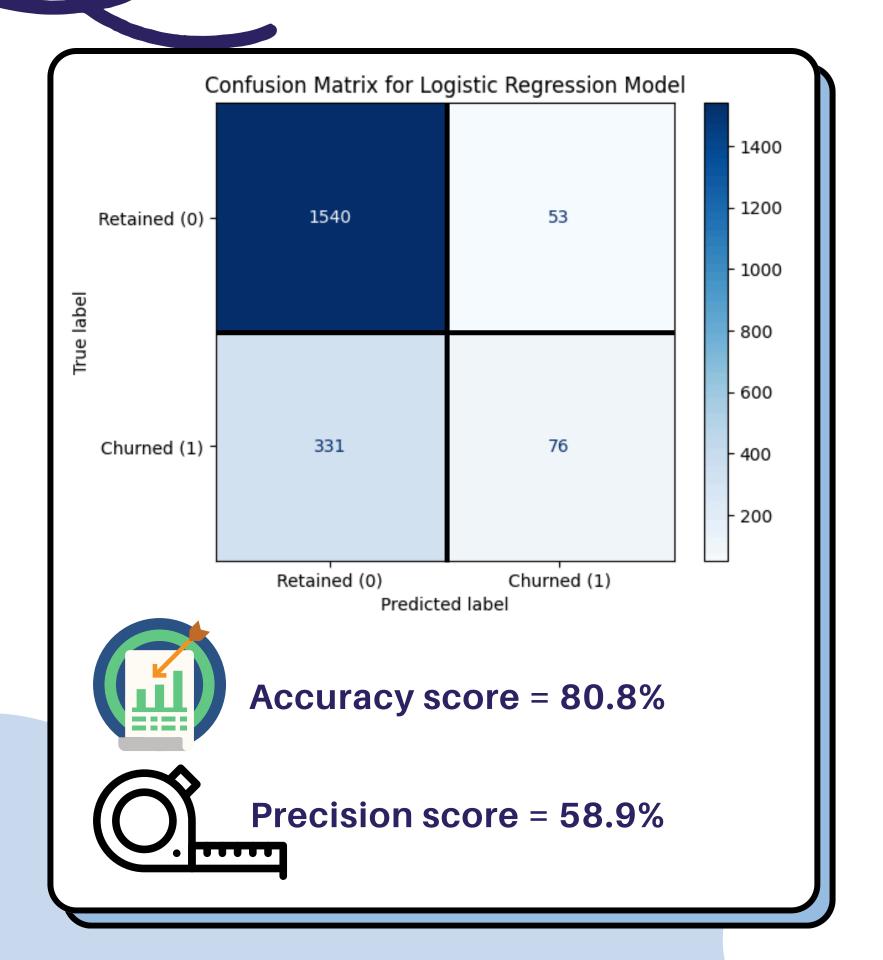
Products Number +0.4668

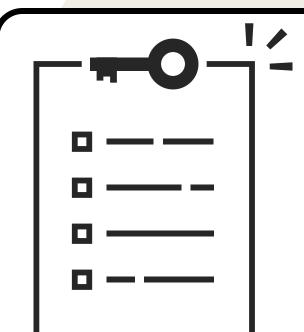


Active Member -0.4907



Gender -0.2609





- Strong overall performance.
- Moderate precision with some false positives



- Older users = higher churn
- Active members = lower churn
- More products = more likely to leave

Implications & Recommendations

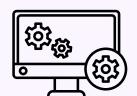




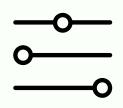




Limitations Of Project



Basic Model Used



Trade-Off



Data Source



Static Snapshot

THANK YOU!