

CREDIT SCORING PROJECT FOR ABC BANK

AUGUST, 2023





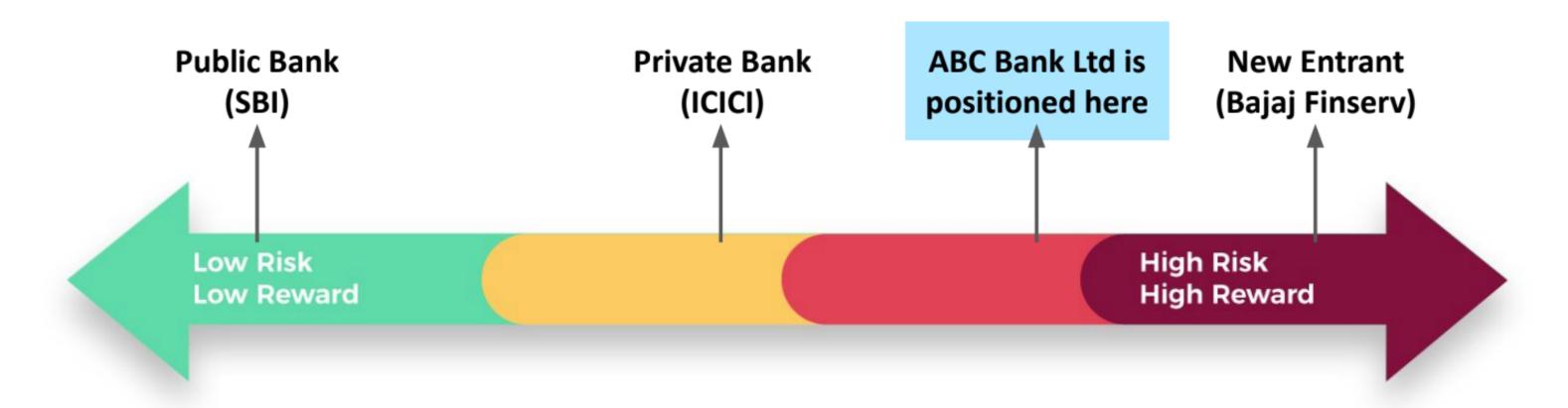
Business Case: Credit Risk Modelling

- ABC Bank Ltd. intends to build an in-house risk model to make lending decisions for subprime mortgages
- Business objective is to maximise profitability, given:
 - O Profit from a good customer is \$100
 - O Loss from a bad customer is \$500
- Bank has shared historical data on customers':
 - Credit bureau records
 - Loan outcomes (paid off or bad loan)1





Our understanding of the assignment



Risk Minimization

- Credit Scores High
- Subprime Credit No

Profit Maximization

- Credit Scores Optimal
- Subprime Credit No

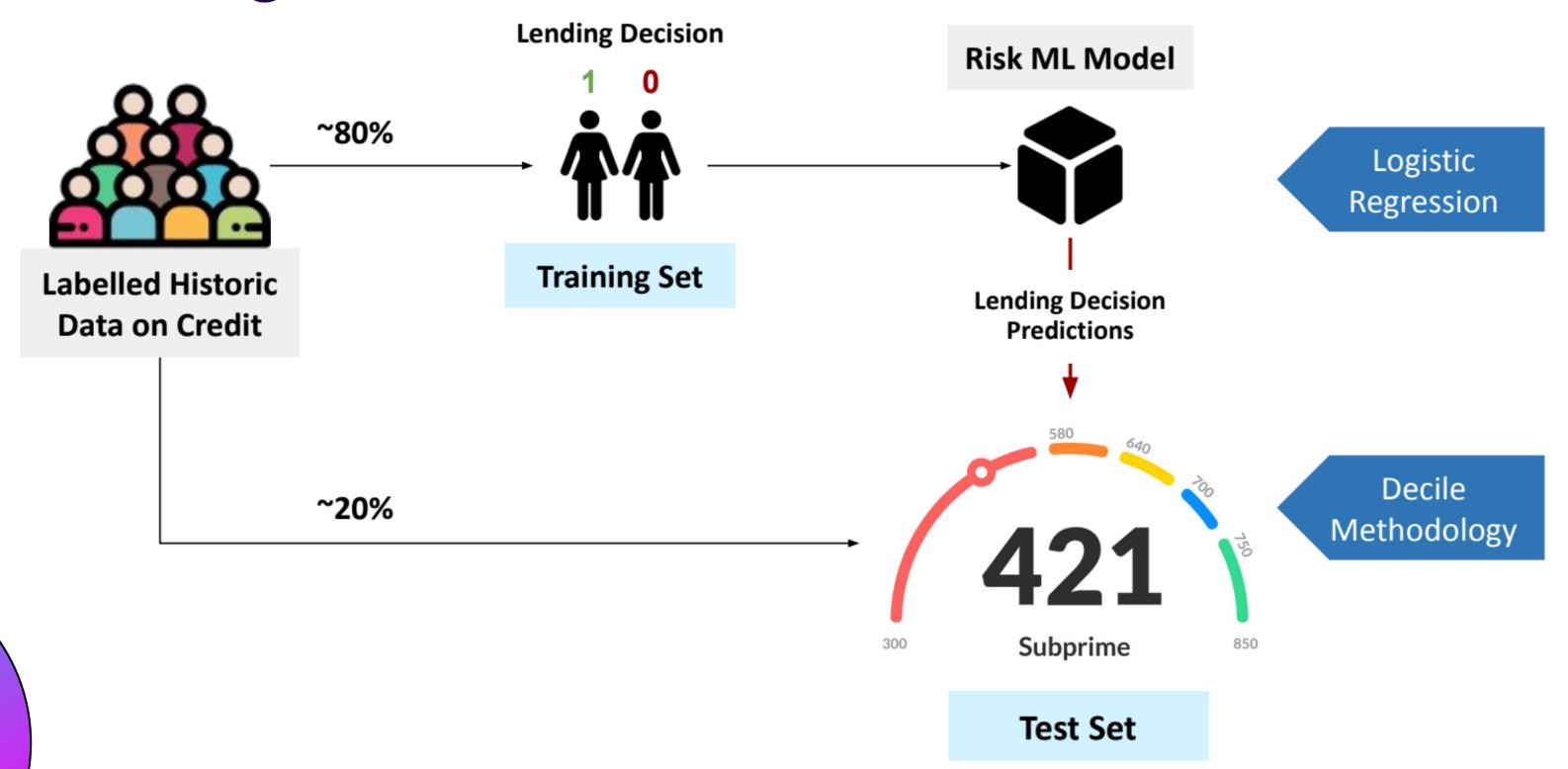
Market Expansion

- Credit Scores Low
- Subprime Credit Yes





High-level solution architecture...



Our approach >>>

01

Assumptions

- missing values imputed with mean
- Customer ID excluded from analysis

02

Trained a classification model, for

- predicting likelihood of loans being good/bad
- using Logistic Regression Classifier

Deliverable #1: In-house Risk Model







Model accuracy achieved







Strategy for Profit

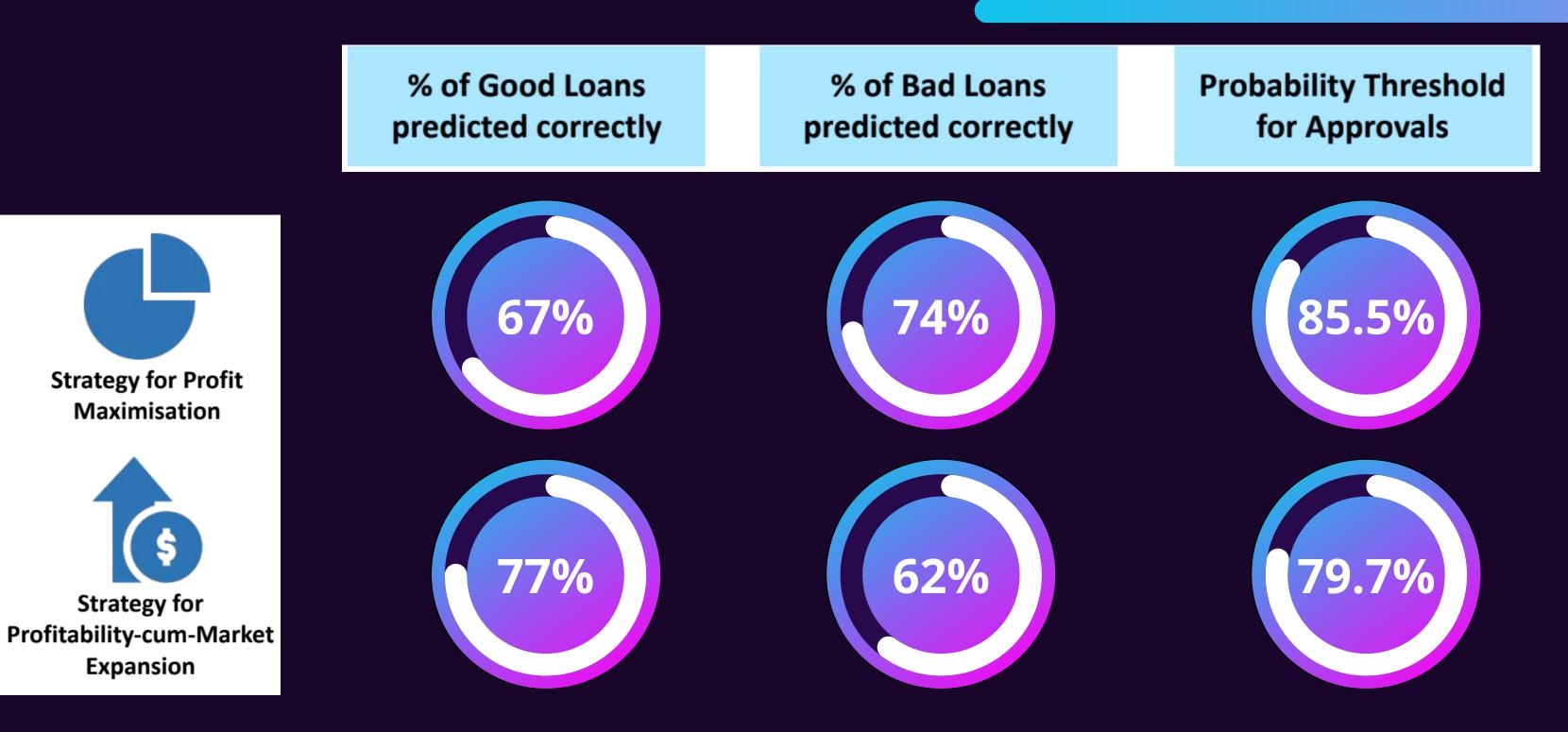
Maximisation

Strategy for

Expansion



ABC Bank's Lending Strategy: Options



Rohit Raj

THANK YOU



https://github.com/RohitRaj-03/Credit_Scoring_for_ABC_Bank_ml