

# Deposit Propensity Prediction



# Background – A Regional Bank in OK and TX

- Founded in 1900
- >350,000 customers
- 75 locations in OK and TX
- Asset Size: \$16 billion
- Cross functional Teams: Marketing, Retail Banking, Analytics Solutions
- Objective
  - Cross-sell deposit products to mortgage customers
  - Mine mortgage application data
  - Identify customers with high deposit potential

# Details

- Data Source: Mortgage Application Data in SQL Server, Snowflake
- Technical Skills:
  - Extracting Data: T-SQL, Snowflake SQL
  - Manipulating Data and Modeling: Python
  - Machine Learning Models: GBM, Random Forest, Light GBM, Grid Search, Hyperparameter Tuning
  - Output: Snowflake SQL, Power BI
- Soft Skills:
  - Communication
  - Project Management
  - Cross-functional Coordination

# Process

