# BOB-Hackathon-2024 (Challenge: Financial Advisory)

Title: Al-Driven Personal Financial Advisor

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### Introduction

### **Objective:**

The objective of our project is to revolutionize financial advisory services by leveraging generative AI to provide personalized, data-driven financial advice to Bank of Baroda customers.

### **Challenge Statement:**

In today's dynamic financial landscape, customers seek tailored investment strategies that adapt to their unique financial goals and changing market conditions. Our solution aims to address these needs by offering real-time advisory services powered by advanced AI algorithms.

### Importance:

This solution is crucial as it enhances customer engagement, improves financial decision-making, and fosters trust through transparent and explainable Al-driven recommendations.

### **Solution Overview**

### **Key Features:**

#### Personalized Financial Planning:

- o Analyse customer financial data securely using Azure SQL Database.
- Utilize Azure Machine Learning to understand spending patterns, income trends, and customer goals.

#### Real-Time Investment Strategies:

- Monitor market trends in real-time using Azure Cognitive Services for sentiment analysis.
- Generate personalized investment strategies based on real-time market data and customer risk profiles.

#### Transparency and Trust:

 Ensure transparency through explainable AI, using Azure's interpretability tools to justify advisory recommendations.  Build customer trust with clear, understandable explanations of AI-driven financial advice.

### **Architecture**

#### Overview:

Our solution is built on a robust Azure cloud architecture, ensuring scalability, security, and real-time data processing capabilities.

### **Components:**

#### Azure SQL Database:

 Store and manage customer financial data securely for analysis and advisory.

### Azure Machine Learning:

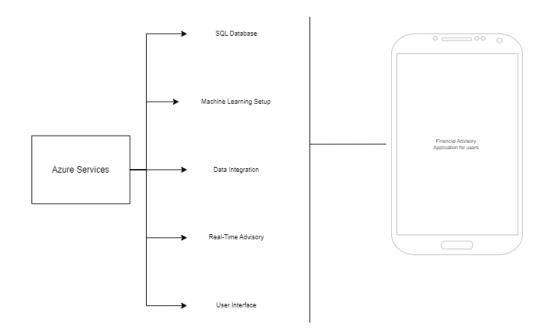
 Develop and train machine learning models to analyse customer data and generate personalized financial strategies.

### • Azure Cognitive Services:

 Perform natural language processing (NLP) and sentiment analysis on financial news and market reports for real-time insights.

### Azure App Services:

 Deploy a user-friendly web or mobile application interface for customers to access personalized financial advice.



# **Benefits**

- Personalization: Provide tailored financial advice based on individual customer goals and risk tolerance.
- Real-Time Insights: Continuous monitoring of market conditions to deliver timely investment strategies.
- Trust and Transparency: Clear explanations of Al-driven recommendations build customer confidence and loyalty.

# Conclusion

Proposed Al-Driven Personal Financial Advisor leverages Azure's advanced cloud services to deliver innovative and personalized financial advisory solutions. By combining data-driven insights with real-time market analysis, we aim to empower Bank of Baroda customers with the tools they need to achieve their financial goals effectively.