

AI for Bharat Hackathon

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Team Name :CloudSaarthi Team

Leader Name :Pratham Vernekar

Problem Statement : [Professional Track] AI for Retail, Commerce & Market Intelligence

Brief about the Idea:

- VyapariAI is a voice-first, AI-powered business copilot for small and rural businesses in Bharat.
- It helps shop owners digitize daily sales and inventory using voice input and paper bill scanning.
- The system provides real-time inventory tracking, demand forecasting, and profit analysis.
- It simplifies GST and tax understanding using local-language explanations.
- VyapariAI delivers MBA-level business advice to help increase sales and improve profit margins.
- The solution is built using AWS services and is designed for low-internet, rural environments.

Your solution should be able to explain the following:

How is it different?

- Voice-first & paper-friendly (no typing)
- Built for rural Bharat, not urban apps
- Gives business advice, not just records

How does it solve the problem?

- Converts voice & bills into digital data
- Manages inventory & predicts demand
- Simplifies GST and tracks profit

USP

- AI MBA-level business advisor
- Local-language, low-internet support
- Built on AWS, scalable for Bharat

List of features offered by the solution



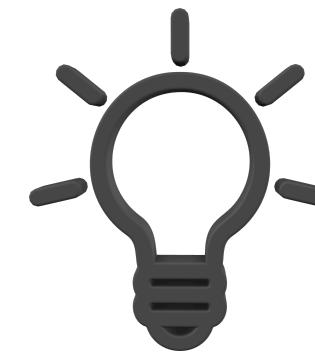
Voice-based daily sales & purchase entry (local languages)



Paper & bill digitization using AI (OCR)



Smart inventory management (low stock, dead stock alerts)



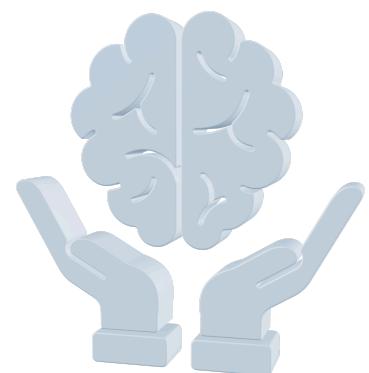
Demand forecasting & restock prediction



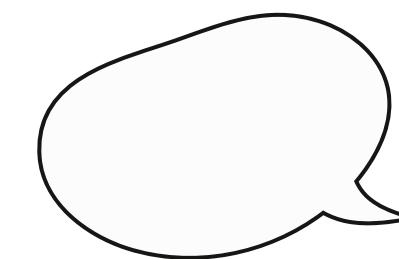
GST & tax insights in simple language



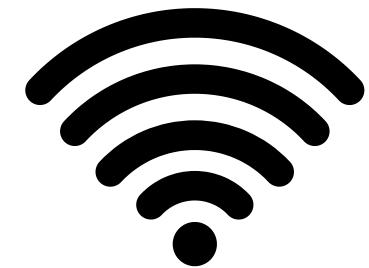
Profit & margin analysis



MBA-level AI business advisor for sales growth

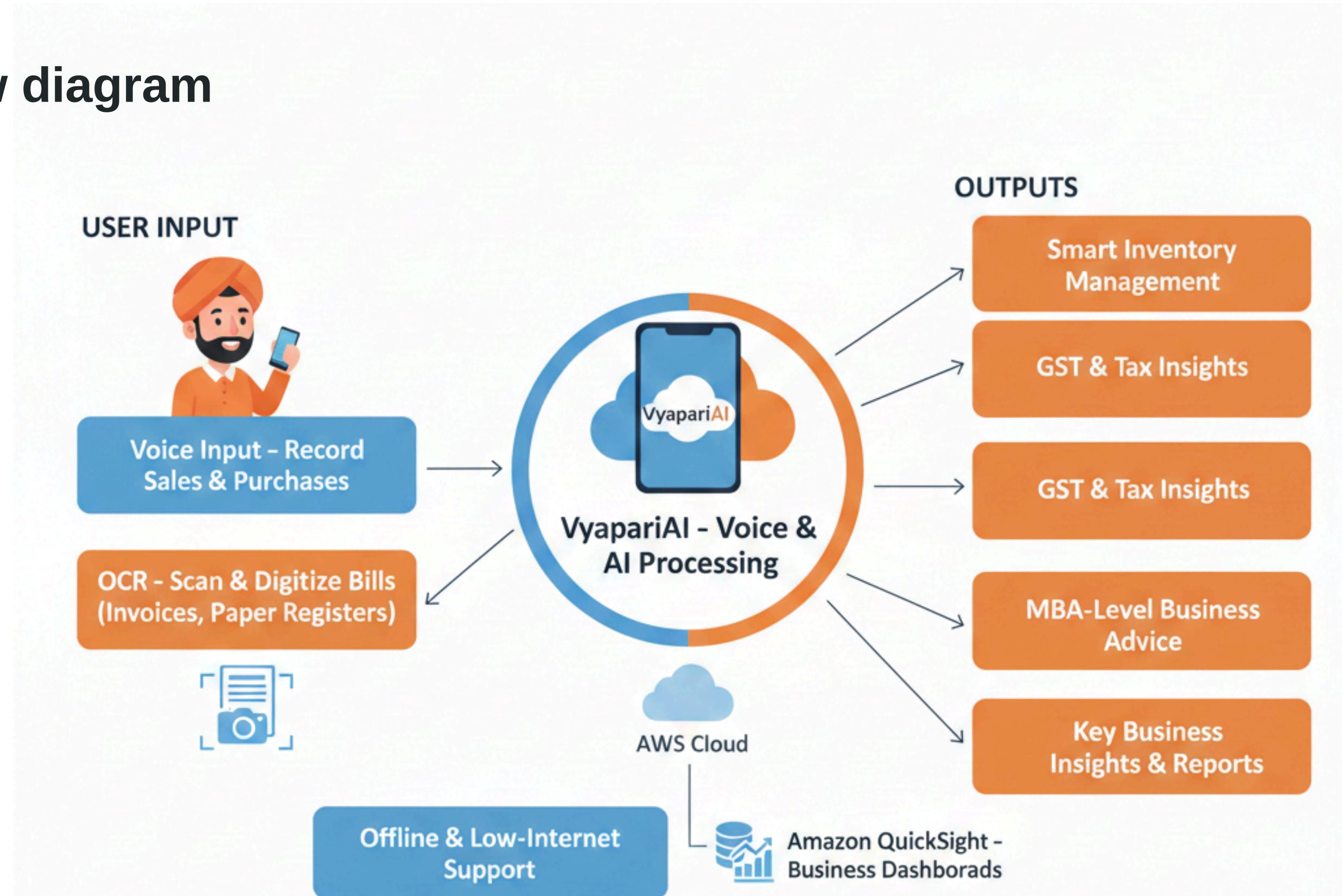


Voice-based business Q&A

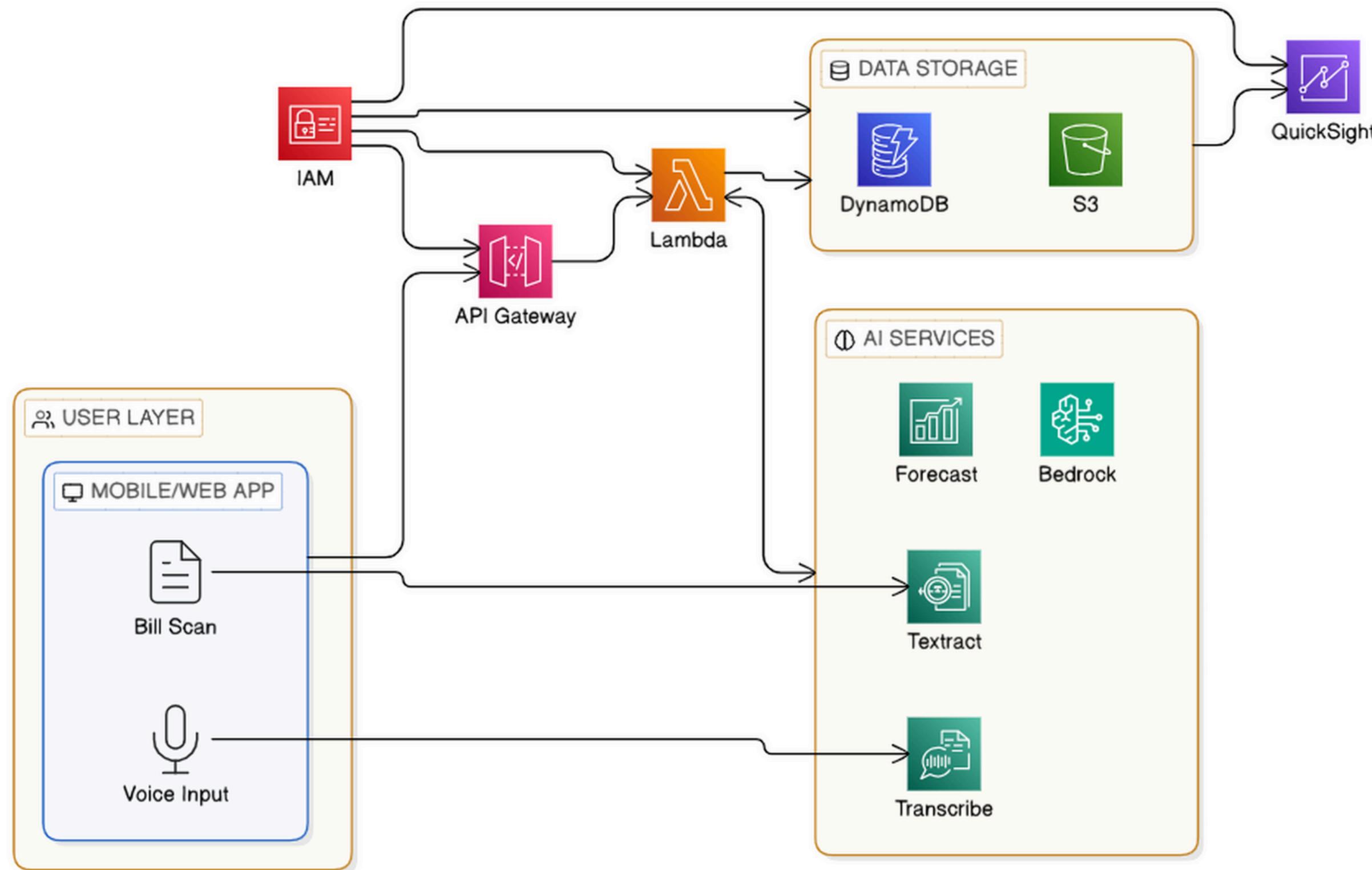


Offline-first & low-internet support

Process flow diagram



Architecture diagram of the proposed solution:

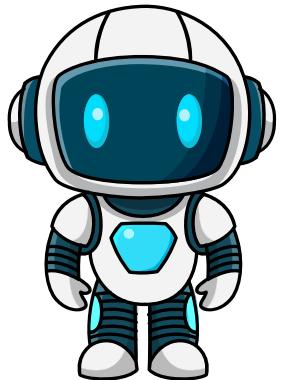


Technologies to be used in the solution:



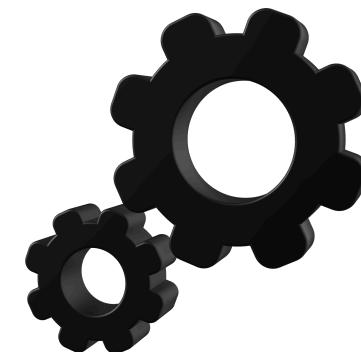
Cloud Platform

Amazon Web Services (AWS)



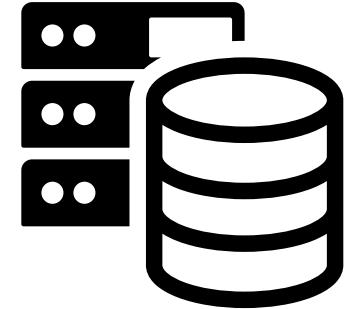
AI & ML Services

Amazon Bedrock
Amazon Transcribe
Amazon Textract
Amazon Forecast



Backend & APIs

AWS Lambda
Amazon API Gateway



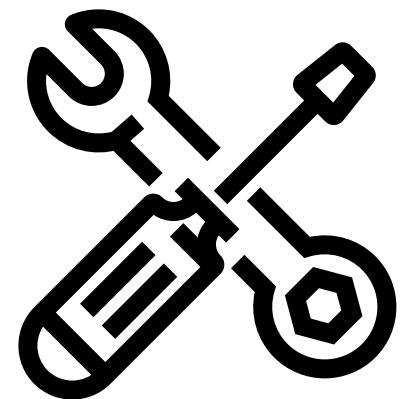
Data Storage

Amazon DynamoDB
Amazon S3



Analytics & Reporting

Amazon QuickSight



Development Tools

Kiro (for requirements
& design generation)



Security

AWS IAM

Add as per the requirements for the hackathon:

- Built using AWS-native services (Bedrock, Textract, Transcribe, Forecast, Lambda, DynamoDB, S3)
- Kiro used to generate requirements.md and design.md
- Solution designed using synthetic / publicly available data only
- Focused on real-world Bharat use cases (rural & small businesses)
- Scalable, serverless architecture with low-cost operation
- Emphasis on responsible AI, data security, and access control
- Clear documentation and architecture provided in GitHub repository

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Thank You

