

AI for Bharat Hackathon

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Team Name : GenGurus

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

Brief about the Idea: AI Sahayak

What is AI Sahayak?

AI-powered retail intelligence platform for Indian retailers & MSMEs

Life-event driven demand forecasting system

Detects real-world triggers (festivals, weddings, seasonal trends)

Uses aggregated public signals (privacy-compliant)

Generates regional **Event Confidence Score**

Recommends base pricing & promotional strategies

Provides what-if simulations before execution

Enables proactive, data-driven decision-making



How different is it from any of the other existing ideas?

1. Proactive vs Reactive Systems

Most retail tools react to past sales data

AI Sahayak detects life-event signals before demand spikes occur

2. Leading Indicators vs Historical Data

Traditional systems rely only on historical trends

AI Sahayak uses real-world event triggers (festivals, weddings, seasonal shifts) as early demand signals

3. Enterprise-Centric vs MSME-Focused

Existing AI pricing platforms are built for large corporations

AI Sahayak is modular, affordable, and designed for Bharat retailers & MSMEs

4. Static Recommendations vs Intelligent Simulation

Most tools suggest price changes without testing impact

AI Sahayak provides “what-if” scenario simulation before execution

5. Black Box AI vs Explainable AI

Many AI systems lack transparency

AI Sahayak explains every pricing or promotion recommendation with clear reasoning

How Will AI Sahayak Solve the Problem?

1. Bhashini Layer (Voice-First AI)

Ask in Hindi, Tamil, Hinglish via WhatsApp or voice

Example: "Agale mahine shaadi ka season hai, kya stock karo?"

30-sec daily AI voice briefing with pricing & demand insights

2. Udhaar (Credit) Intelligence

Analyzes digital ledger (Khatabook/Tally data)

Predicts repayment probability

Suggests best timing for collection (harvest, payday, festival)

3. ONDC Market Intelligence

Detects trending products within 5km radius

Benchmarks prices against ONDC network

Helps retailers stay competitive

4. Event Confidence Score (Scientific Model)

Weighted score based on:

Historical sales patterns

Social/Search trend intensity

Event proximity

Converts signals into demand probability

5. Hyper-Local Stock Sharing (Co-op Mode)

Identifies excess stock in nearby shops

Suggests local inventory swaps

Reduces dead stock & procurement cost

6. AR Visual Merchandising Assistant

Retailer clicks shelf photo

AI suggests product placement optimization

Based on detected regional trends

USP of the proposed solution?

1. "Sachet" AI – Micro Subscription Model

Event-based access (₹50 Diwali Pass / Wedding Week Boost)
Pay only when needed
Designed for small retailers' cash flow cycles

2. Panchang-Based Demand Intelligence

Integrates Indian calendar (Dhanteras, Muhurat timings)
Predicts demand based on cultural events, not just months
Region-specific festive forecasting

3. Khaata-to-Insights Integration

One-click sync with Khatabook / OKCredit
Auto-detects top customers & repayment cycles
Predicts restock timing based on ledger trends

4. Low-Bandwidth Lite Mode

Works in weak internet zones
Offline-first design
Sends critical alerts via SMS / WhatsApp

AI Sahayak: Unique Selling Points



Sachet" AI – Micro Subscription Model

Event-based access
Pay only when needed; Low up front cost
Tailored for MSME cash flow cycles



One-click sync with digital ledger



Event-based access (e.50 Diwali Pass) Low up front cost Tailored for MSME cash flow



Khaata-to-Insights Integration

Auto-detects top customers
Predicts restock based trends



Low-Bandwidth Lite Mode

Works in weak internet zones
Offline-first
Critical architecture



Integrates Indian calendar
Muhurat, not just
Region-specific festive forecasting



Works in weak internet zones
Critical alerts via SMS / WhatsApp



AI Sahayak: The Bharat Advantage

List of features offered by the solution

1. Predictive Intelligence (The “Brain”)

Life-Event Detection Engine

Tracks 50+ Indian festivals, wedding muhurats & harvest cycles

Regional Event Confidence Score (0–100)

Pin-code level demand intensity indicator

Hyper-Local SKU Forecasting

Product-level demand projections using historical + real-time event triggers

2. Strategic Decision Tools (The “Optimizer”)

Elasticity-Aware Pricing

Balances competitive pricing with margin protection

Deterministic Impact Modeling (What-If Lab)

Simulates Revenue, Volume & Gross Margin shifts before execution

Promo ROI Guard

Detects cannibalization & prevents unprofitable discounts

3. Bharat-First Accessibility (The “Bridge”)

Bhashini Voice Interface

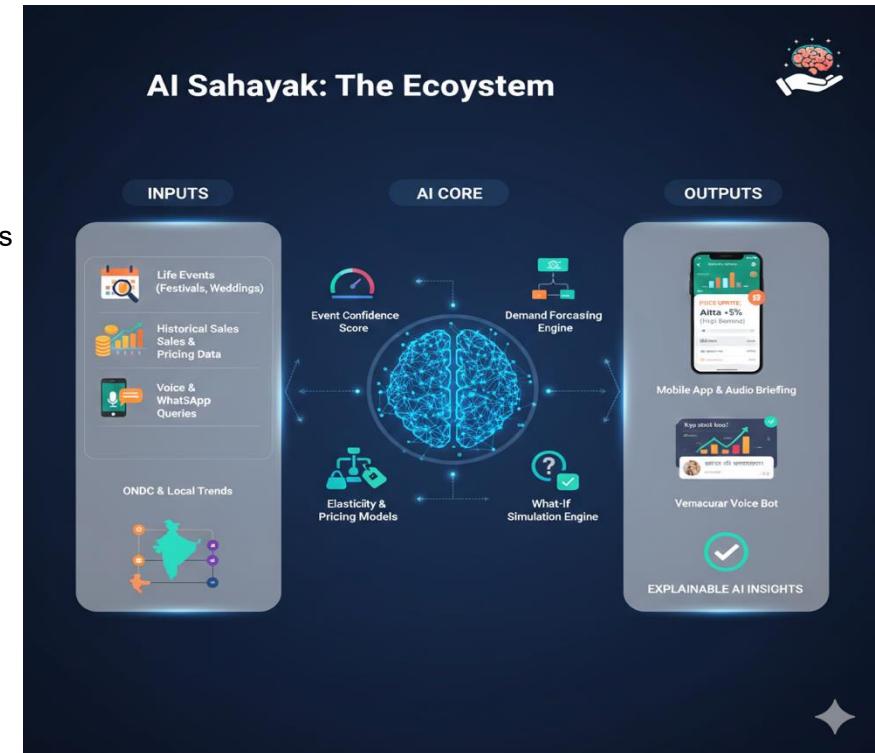
Multilingual WhatsApp & Voice bot (Hindi, Tamil, Hinglish)

ONDC Competitive Benchmarking

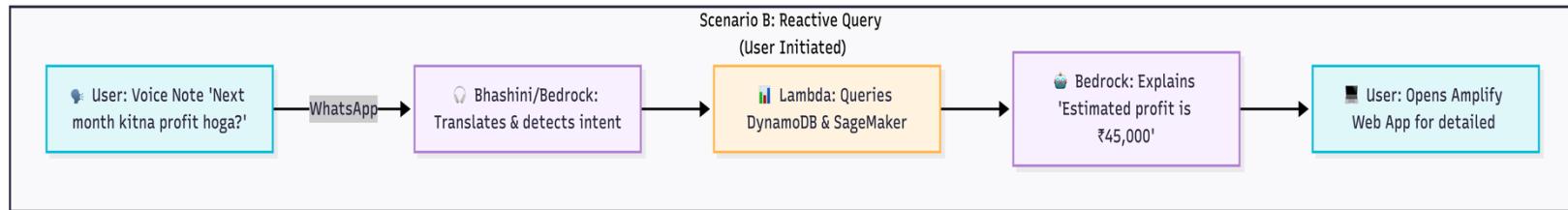
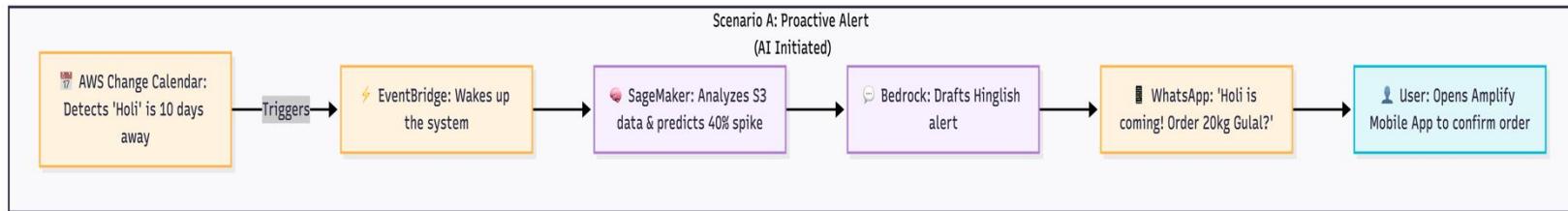
Compares shop prices with local network average

Lite-Mode Architecture

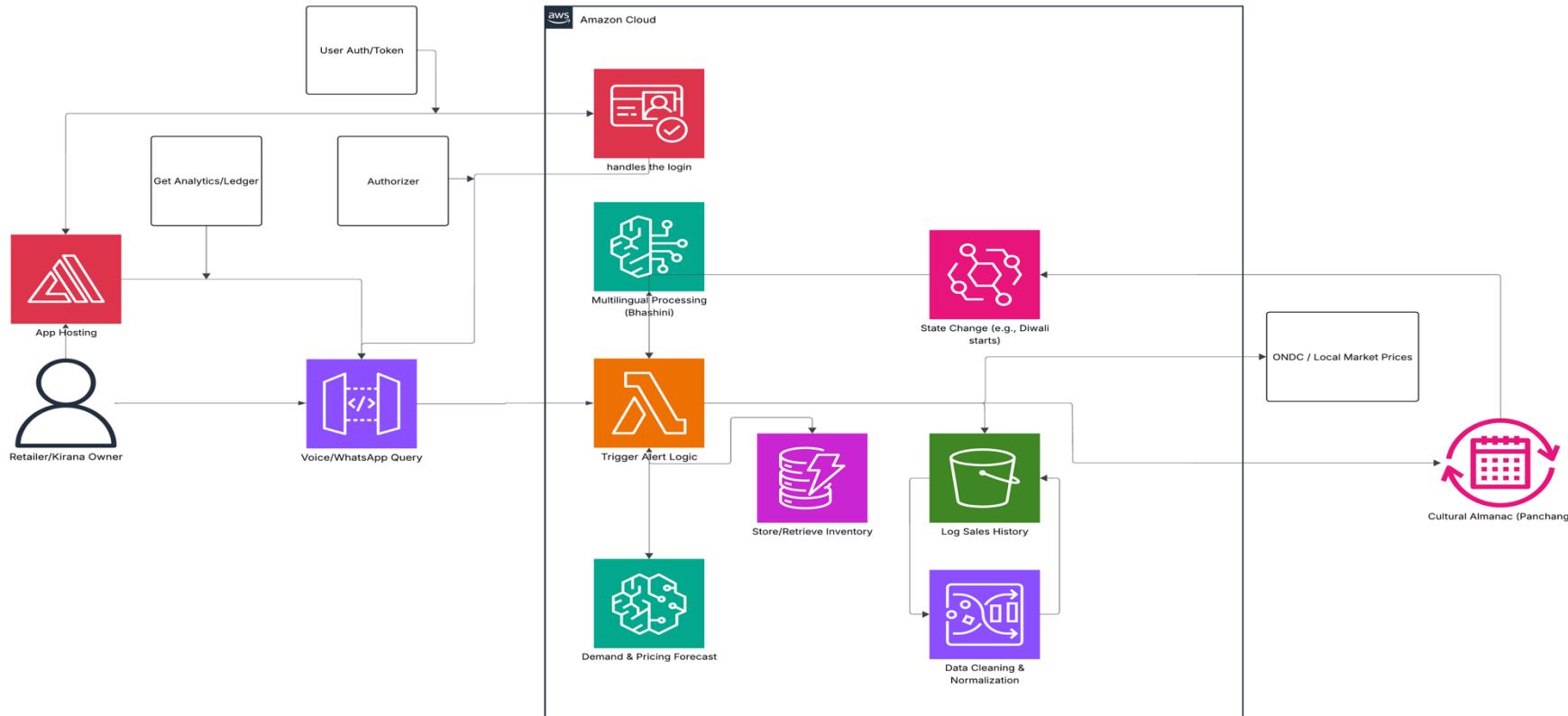
Works on low bandwidth (2G/3G) & entry-level smartphones



Process flow diagram or Use-case diagram



Architecture diagram of the proposed solution:



Technologies to be used in the solution:

1. Generative AI Core – Amazon Bedrock

Claude 3 / Llama 3 via Bedrock

Powers multilingual WhatsApp & Voice bot (regional switching)

Bhashini Integration (via AWS Lambda)

High-accuracy translation for Bharat users

Knowledge Bases for Bedrock

Stores Panchang & cultural event data for contextual AI reasoning

2. Demand & Pricing Intelligence – Amazon SageMaker

Time-Series Forecasting (Canvas / Studio)

Combines historical sales + Event Confidence Score

Elasticity Simulation Models

“What-If” pricing impact on Revenue & Margins before execution

3. Data Pipeline & Serverless Backend

AWS Glue + DataBrew

Cleans & normalizes ledger data (Khatabook / Excel)

Amazon S3 + Amazon DynamoDB

Data lake storage + real-time SKU & inventory access

4. Client Interface & Identity – Amplify & Cognito

AWS Amplify (Web/Mobile Hosting)

Hosts the Sahayak Dashboard (Desktop + Mobile)

Visualizes SageMaker forecasts & DynamoDB real-time inventory

Amazon Cognito (Secure Identity)

Enterprise-grade authentication & access control

Ensures store-level data isolation (Khaata privacy compliant with AWS Well-Architected Security pillar)

5. Proactive Event Logic – Systems Manager & EventBridge

AWS Systems Manager – Change Calendar

Acts as a digital Panchang tracking festivals, wedding seasons & harvest cycles

Converts AI from reactive chatbot → proactive demand planner

Amazon EventBridge

Triggers SageMaker forecasts on calendar state changes

Sends stock alerts 7–10 days before demand surge (prevents stock-outs)

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Thank You

