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AI for Bharat Hackathon

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Team Name : First-Commit

Team Leader Name : Prajwal Nivangune

Problem Statement : Agentic AI copilot that auto-diagnoses retail performance changes and recommends next actions.

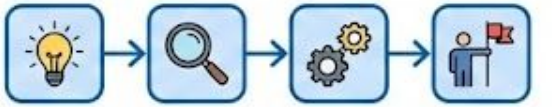
Bridging the Gap Between "What Happened?" and "Now What? -

The Problem

- Fragmented data & slow decision-making
- Struggle with:
  - What?
  - Why?
  - Who?

  Result: Revenue Loss

Our Solution



- Result: Clear decisions in minutes

Our Edge

- Always-on & Proactive
- Monitors:
  - Revenue at risk
  - Inventory exposure
  - Operational breakdowns
  - Demand spikes
- Result: Alerted early with remediation paths

How is our Solution Different? I USP & Problem Solving -

How is it different?

Dashboard

Chatbot

Our AI takes responsibility for the decision, not just analysis.

How does it solve the problem?

Revenue Risk
Stockouts
Operational Breakdowns
Demand Spikes

Founders move from data overload to clear next steps in minutes.

USP of the proposed solution

Decision Intelligence

Always-on, proactive

Actionable by design

Built for Indian D2C

Delivers real business outcomes

We turn business anomalies into owned actions -not charts

The Agentic Engine: Features & Capabilities -

Data Intake

Lite inputs (WhatsApp/voice), Excel/CSV uploads, marketplace/API connectors.

Hypothesis & Test Orchestrator

Hypothesis tree generation + minimal query/test planning + confound checks.

Normalization & Quality Layer

Auto column mapping, schema unification (orders/inventory/returns/traffic/SLA), missing-data handling.

Causal Scoring & Explainability

Contribution + confidence scoring (decomposition/DiD/synthetic control) + evidence trace

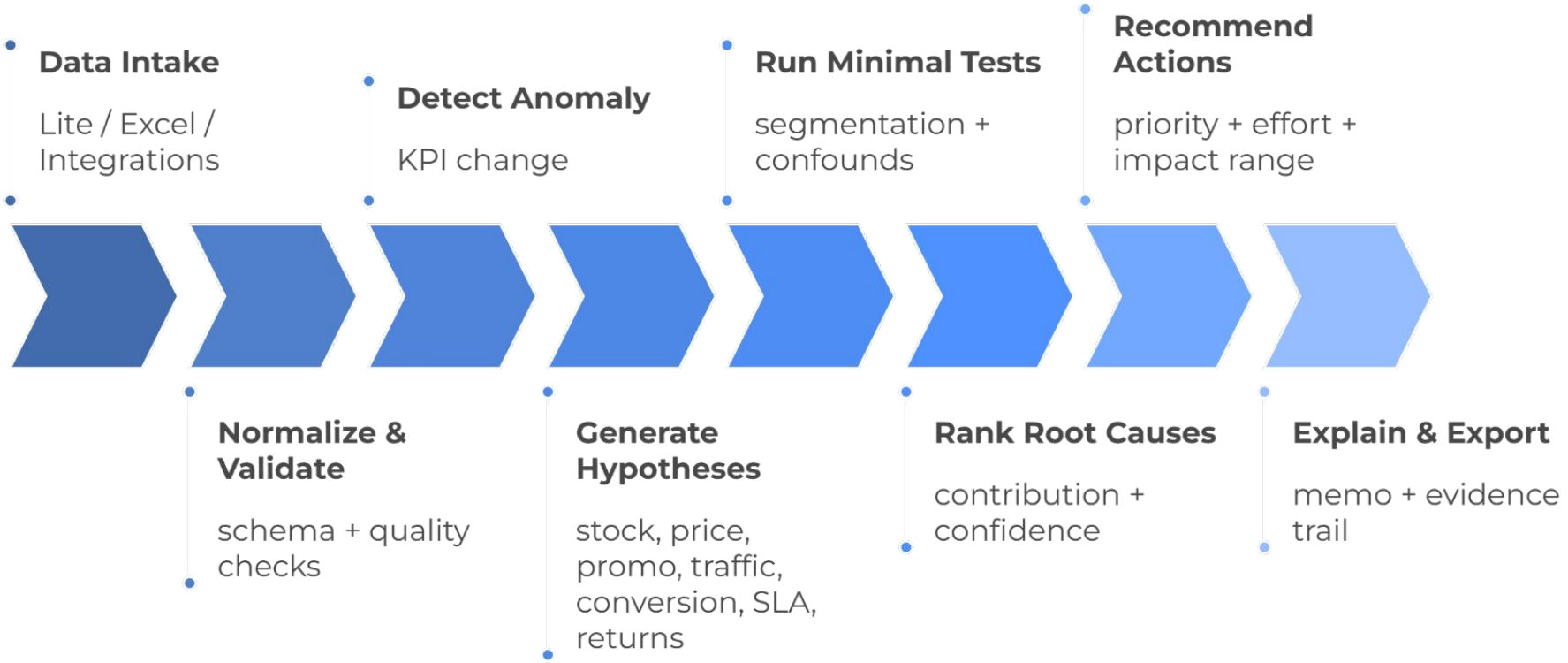
Anomaly Detection

KPI monitoring (sales, units, CVR, AOV, OOS, returns, cancels, SLA) with segment localization (SKU/region/channel).

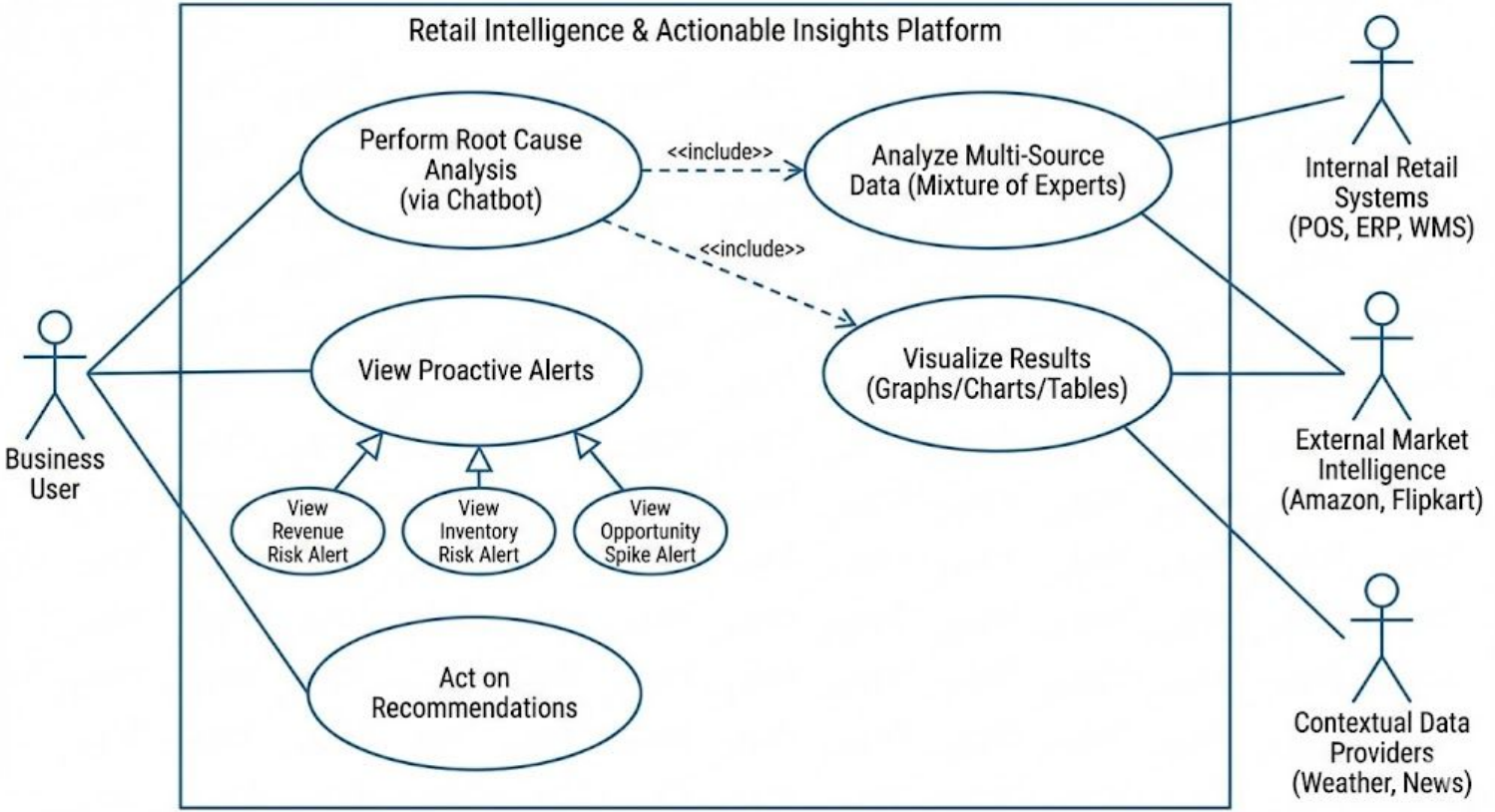
Action Recommendations & Memo

Prioritized actions (restock, listing fix, price/promo, delivery settings) + expected impact range + exportable memo.

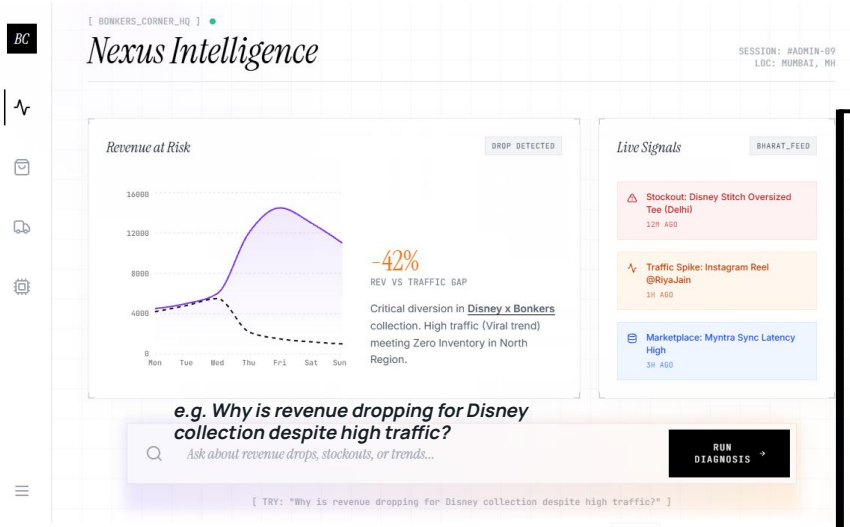
Process flow diagram -



Use Case Diagram -

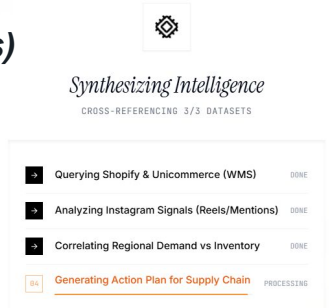


Wireframes/Mock diagrams of the proposed solution -



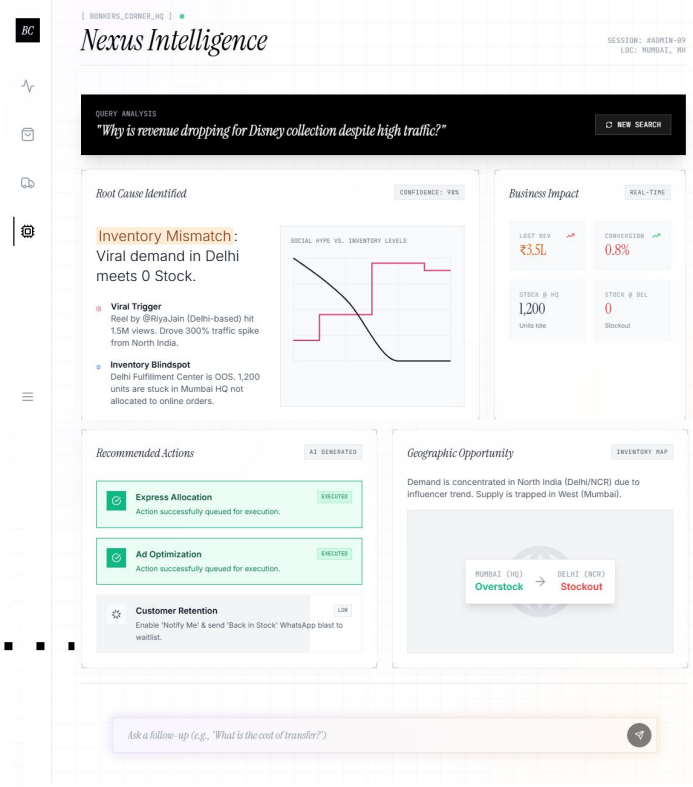
Dashboard (Ask questions)

Synthesizing stage

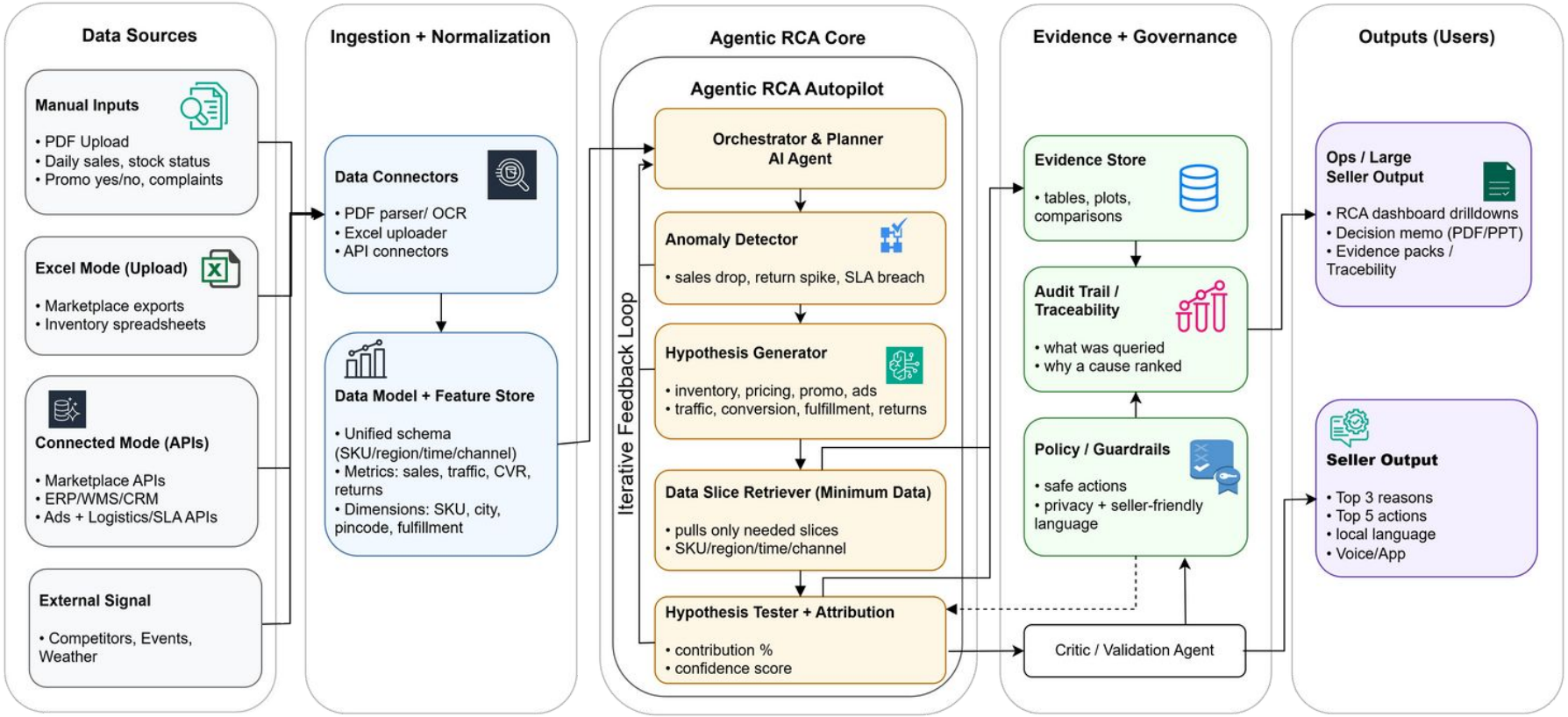


Combines insights with recommended next steps and

can also send the associated task ID to the appropriate team for execution, in one click.



Architecture diagram of the proposed solution -



Technologies to be used in the solution -

Frontend & Backend Technologies

Frontend
React.js (Vite)
shadcn/ui
Tremor (For charts)
Zustand (State Management)

Backend
Express.js (Typescript)
Node (Runtime)

REST API + SSE

Agents, LLMs & Database

Agents & LLMs
AWS strands-agents sdk (Typescript)

Database
MongoDB

Cloud Infrastructure

AWS
App runner/ ECS
Lambda (if needed)
CloudFront
Secret Manager
AWS Cognito

GCP
Google BigQuery (For business isolations, Data Storage)

Excel (As source for the BigQuery tables)

Estimated implementation cost -

Components	Tech	Cost (Monthly)
Compute	App runner	$25.00
Database	Google BigQuery	Free Tier
AI (models)	Bedrock	~$20.00 (Variable for 100 users)
CDN / DNS	AWS CloudFront	Free tier
Total		**$45**

We can service an MSME for less than ₹60 ($0.70) per month at scale. We charge them ₹199/month, offering a healthy 70% gross margin.

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Thank You