

ShopWise

An Agent-Powered Smart E-Commerce Assistant

Hackathon Submission | Built with Groq, LLaMA & Neo4j

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Problem Statement

Shopping is Overwhelming.

- Too many products, too many tabs
- Generic filters dont understand preferences
- No personalization across sessions

Shoppers want an intelligent, natural, and fast way to shop

Our Solution

ShopWise: AI Agent for Smart Shopping

- Chat or speak naturally to find the right products
- Built-in memory using a Knowledge Graph
- Fast, contextual recommendations using Groq + LLaMA

Key Features

Conversational interface (chat-first, voice-ready)

AI agent powered by Groq API + LLaMA

Personalized experience using Neo4j knowledge graph

Modular design extendable to food, travel, etc.

Ready for multimodal input and expansion

Architecture

[User Chat/Voice Input] -> [FastAPI Backend] -> [Agent Logic using Groq + LLaMA]
-> [User Profile Neo4j Knowledge Graph] -> [Product Recommendations API]

AI Integration

Groq API

- Runs LLaMA model at ultra-low latency
- Handles chat generation & user intent

Neo4j Knowledge Graph

- Stores user preferences
- Enables deep personalization

Demo Walkthrough

Live Demo Includes:

- AI chat interface
- Smart product queries
- Memory building via profile graph
- Sample personalized responses

(Insert screenshots or video thumbnail)

Business Impact

For Users:

- Natural, smart, frictionless shopping

For E-Commerce Platforms:

- More engagement
- Higher conversions
- Personalized upsell/cross-sell

Tech Stack

- FastAPI + Python
- Groq API (w/ LLaMA model)
- Neo4j (Knowledge Graph)
- Render / Railway (deployment)
- (Optional) Twilio / Web Speech API

Bonus Integrations

Bonus Tracks Used:

Groq (required)

LLaMA (required)

Coral Protocol planned for identity use

Fetch AI roadmap for autonomous product agent

Whats Next?

Roadmap

- Add food ordering & travel agents
- Voice-first UX
- Image search & visual inputs
- Fine-tuned LLaMA personalization

Thank You!

Thank you for reviewing!

Lets redefine how users shop with AI

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GitHub & Demo links available in submission