

MUMBAI HACKS

Aura

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Problem Statement -

Domain - Fintech

Track - Investments

How might we develop generative AI which personalizes recommendations for investments for individual investors?

Developing generative AI for personalized investment recommendations involves building a platform that aligns financial advice with individual goals, preferences, and market conditions. The system leverages real-time data, portfolio optimization techniques, and NLP-driven insights to provide expert-level guidance while ensuring scalability, transparency, and trust through risk-aware recommendations.

Challenges

- 1. Challenge with API Efficiency:** We struggled to build an API that could predict IPO prices and mutual funds efficiently. To reduce latency, we opted to import context once after the first user prompt, instead of interactive fetching.
- 2. Chatbot Performance:** Our chatbot delivers responses in 5-10 seconds for up to 500 tokens, but the additional API latency limited us from further enhancing interactivity.
- 3. Future Plans:** Given more time, we would integrate Gold ETFs, personalized SIPs, and a section for VCs to connect with startups through the chatbot.
- 4. Data Collection Issue:** Finding pre-made datasets was a challenge, leading us to scrape 1300 mutual fund NAVs manually.

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Team Photo



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Solution

Technical Solutions Implemented

1.Data-Driven Personalized Advice:

1. Uses a **mutual fund dataset** with 14,000+ data points, including **fund name, category, capital, NAV, and NAV category** to provide customized recommendations.
2. Utilizes **IPO data with 400 records**, incorporating parameters like **IPO name, issue size, QIB, HNI, RII participation, issue price, and listing gains** to suggest high-potential investments.

2.Real-Time Market Insights:

1. Integrates with live market data APIs to continuously update mutual fund NAVs and IPO listings, ensuring **up-to-date financial recommendations**.
2. Dynamically tracks **CMP and current gains** for IPOs to provide real-time performance analytics.

Expert-Level Advice Through Conversational AI:Offers 24/7 availability for users through a chatbot interface that simplifies complex financial advice into actionable insights.Uses NLP models to interpret user goals and recommend appropriate investments aligned with their risk appetite and financial objectives.

3. Expert-Level Advice Through Conversational AI:

1. Offers **24/7 availability** for users through a **chatbot interface** that simplifies complex financial advice into actionable insights.
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Target audience:

- **Young Professionals and New Investors:** Individuals entering the investment space seeking accessible guidance for investments.
- **Experienced Investors Seeking Tailored Insights:** Seasoned investors looking for customized and data-backed recommendations.
- **Time-Constrained Professionals:** Busy individuals desiring quick, real-time investment insights to stay informed on market developments effortlessly.

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Thank you