



CODECELL-CMPN, VESIT

SYRHS HACKATHON 2025

Category Code: C2

Problem Statement Title: Wealth and Asset Management

Team Name: The Polymorphs

Institute Name: Vivekanand Education Society's Institute of Technology



Idea / Approach details (& implemented features)

FinWise AI uses AI Agent as the core intelligence to assist users in managing investments. It integrates **multiple sub-agents**, **retrieval-augmented generation (RAG)**, and **UPTIQ API resources** to generate insights for investment strategies. The key objectives include:

Automated Recommendations

Provides personalized investment suggestions based on risk tolerance

Portfolio Rebalancing

Adjusts asset allocation to maintain optimal returns with minimal risk

Goal-Based Planning

Aligns investments with short-term and long-term financial goals

Market Event Analysis

Monitors global events for real-time portfolio adjustments



Innovation (Showstopper)



RAG Based Financial Query Advisor

The RAG Based Financial Query Advisor harnesses a curated knowledge base scraped from 20 top financial sites to deliver precise, data-driven financial insights.

AI-Powered Goal-Based Investment Planning

Users specify their target return amount and investment duration. AI dynamically calculates the optimal monthly investment required.

AI-Driven Risk-Aware Investment Strategies with Advanced Metrics

Users receive tailored investment strategies using AI-driven risk metrics (Sharpe Ratio, Beta, Monte Carlo simulations).

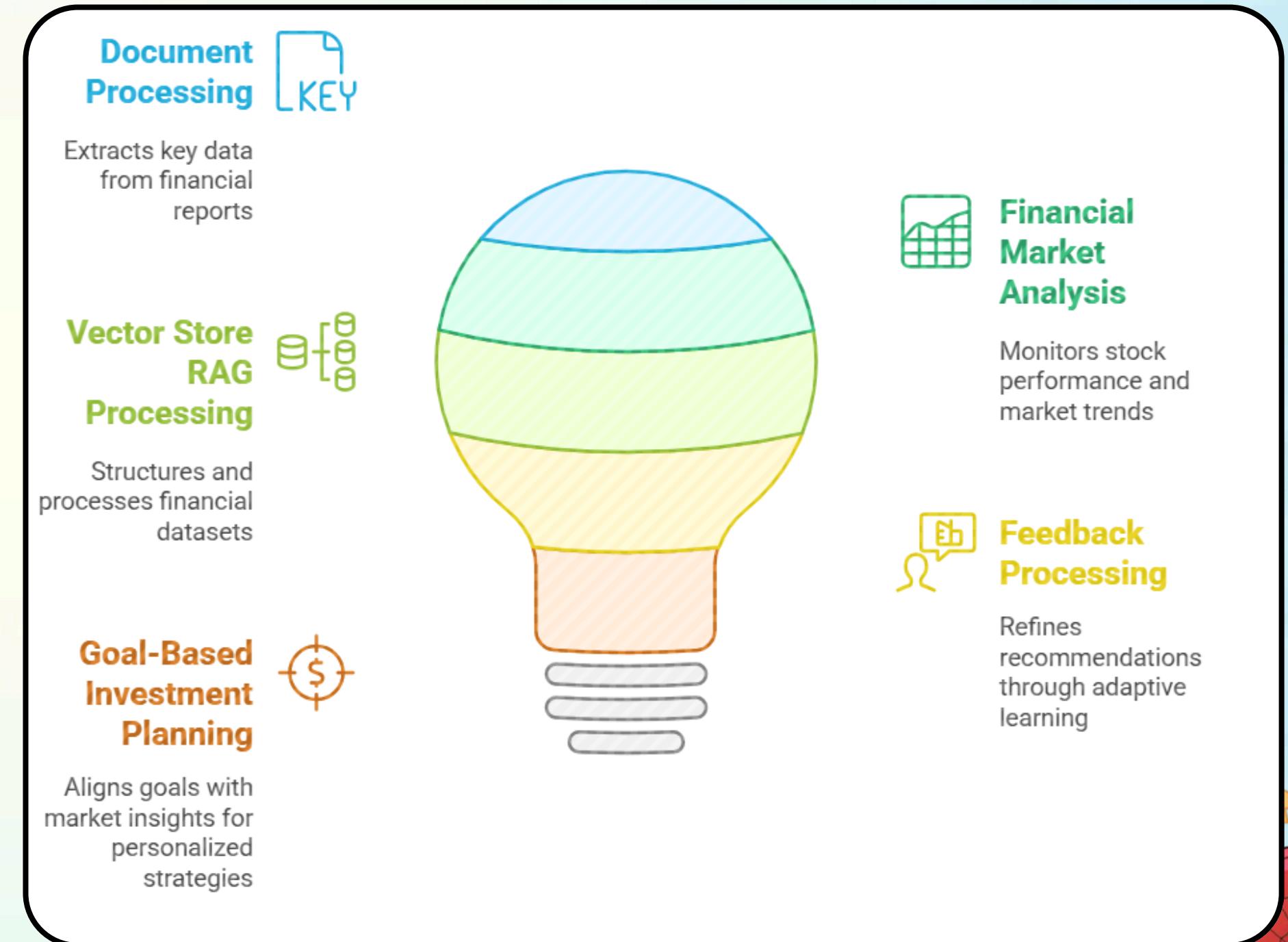
AI-Driven Portfolio Rebalancing with Risk Adaptive Strategies

Instead of static diversification, AI dynamically shifts investments in response to Market crashes, Inflation risks, Interest rate fluctuations, Sector shifts



Uptiq Agent- Finwise AI Agent

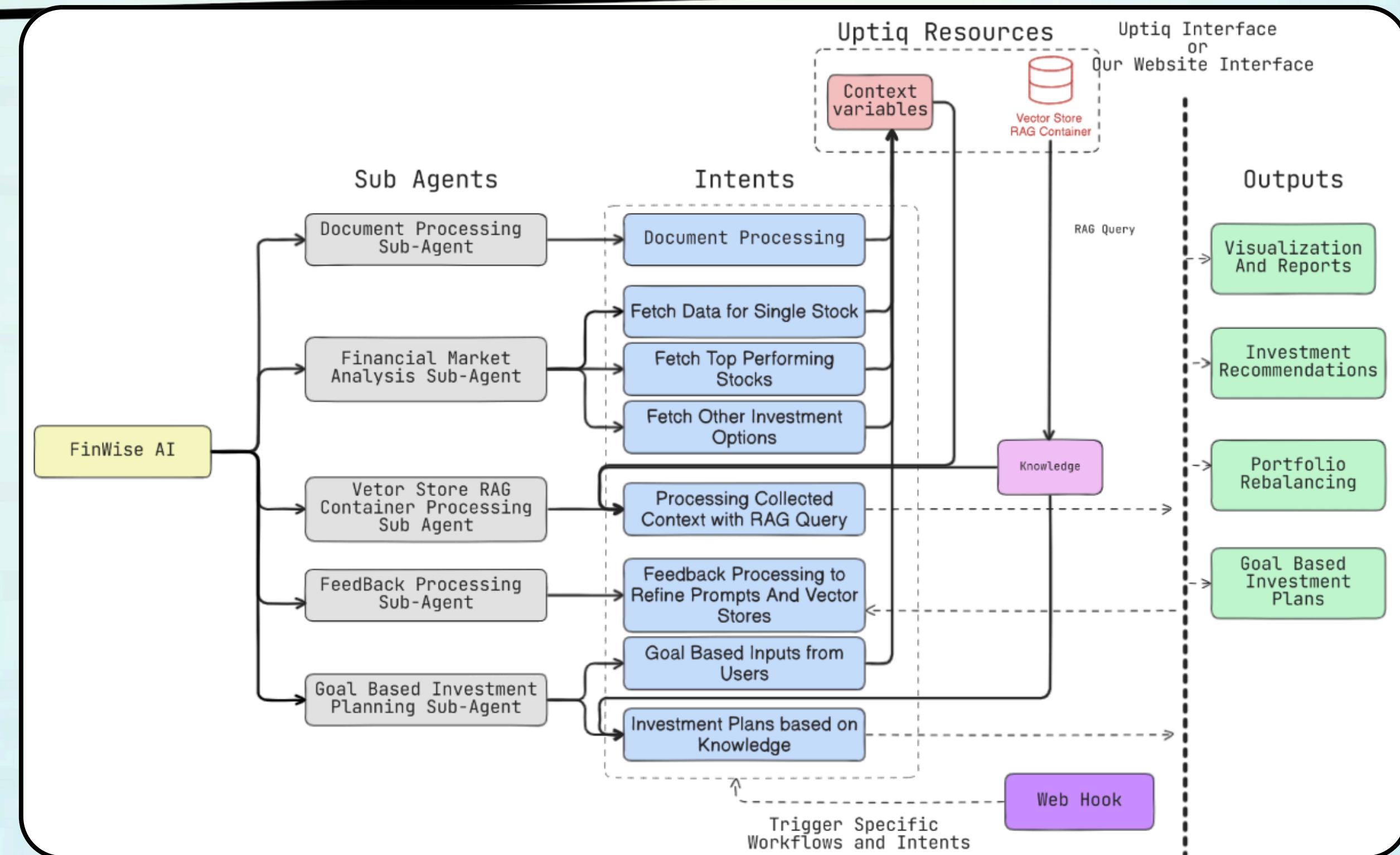
FinWise AI is an advanced financial intelligence platform revolutionizing investment decision-making with AI-driven insights. It operates through five specialized sub-agents:



Block Diagram



Detailed
Outputs Link -
[https://shorturl.
at/iyjVG](https://shorturl.at/iyjVG)



Use Case



AI-Driven Wealth & Asset Management

Name: Rahul Mehta

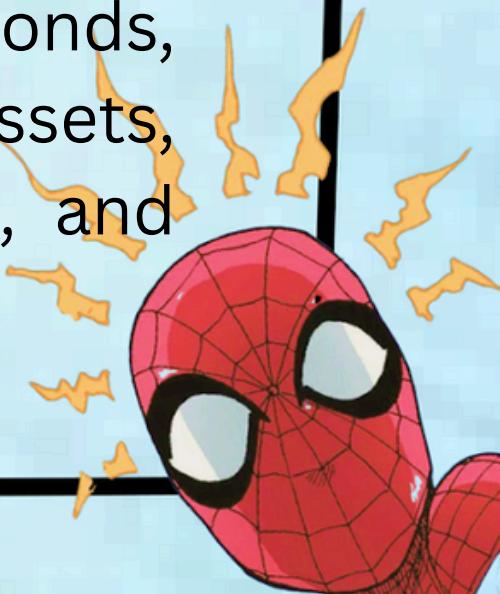
Age: 35

Occupation: Senior Software Engineer

Goal: Accumulate \$500,000 in 10 years for early retirement

Risk Appetite: Moderate (Balanced portfolio of equity, bonds, and alternatives)

Rahul wants to save \$500,000 in 10 years for early retirement. The AI-driven system helps him determine the required monthly investment and suggests a balanced portfolio of equity, bonds, and alternatives. It continuously monitors market trends and optimizes underperforming assets, ensuring diversification. With AI-driven insights, Rahul stays informed, adjusts strategies, and maximizes returns while managing risks effectively.



Future Objectives

- **Web Integration:** Reinforcement learning enables the platform to provide dynamic, adaptive investment insights through the website interface, improving user engagement and decision-making.
- **Enhanced Personalization:** AI agents utilizing reinforcement learning can learn from individual user behaviors and preferences, offering tailored investment strategies aligned with personal financial goals and changing market conditions.
- **Automated Risk Management:** Implementing reinforcement learning allows for real-time risk assessment and proactive mitigation. AI agents can dynamically adjust portfolios in response to market volatility, optimizing performance while adhering to the user's risk tolerance.
- **Scalability & Expansion:** Reinforcement learning models can adapt to various financial assets and market scenarios, supporting the platform's expansion into global investment strategies and accommodating diverse asset classes.