AlphaQuant Pro

- Advanced Stock Market Analysis & Forecasting Platform
- Hackathon: Code Craft AI × Dev Hackathon
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- LinkedIn | GitHub | Devpost

Problem Statement

- - Retail and individual investors lack advanced forecasting tools.
- - Difficult to synthesize market data, AI insights, and portfolio performance in one platform.
- - High barrier to entry for intelligent financial decision-making.

Our Solution

- AlphaQuant Pro: A unified AI-powered financial analysis platform.
- - Technical indicators
- - Forecasting with AI models
- - Portfolio analytics
- - AI Financial Assistant
- - Vector DB for memory/search

Key Features

- - Market Analysis with RSI, MACD, Bollinger, Fibonacci, etc.
- - Forecasting via SARIMA, LSTM, Prophet, Random Forest
- - AI-powered portfolio composition and risk metrics
- - Context-aware AI chat for financial Q&A
- - Real-time price alerts and crypto correlation comparison

AI Integration

- - Forecasting models: Prophet, LSTM, RF, SARIMA
- - AI Chat Assistant using financial context and live data
- - Automated insights and quick recommendations

Architecture

- Frontend: Streamlit UI
- Backend: Python + forecasting models
- DB Layer: Zilliz (vector DB)
- External APIs: Yahoo Finance, Novita AI
- Dev Environment: Trae IDE

Demo Showcase

- You can click on these links to see the demo of App
- Main App: https://treahackathon-bfghpcuvmvfsjdeoeqj5m6.streamlit.app/
- web integration :https://mellifluous-sprite-33a706.netlify.app/

Impact

- - Empowers smart investing for non-technical users
- - Provides professional-grade analytics with simple UI
- - Enhances decision-making using AI forecasts + insights

Future Roadmap

- - Integration with trading APIs
- - Expand crypto/ETF coverage
- - Real-time AI summarization of global news + stocks
- - Export as investor reports

Thank You + Q&A

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- Built using Trae IDE and Streamlit