Project Roadmap

Objective

Build an AI-driven platform powered by a large language model (LLM)
to forecast market trends, execute trades using pre-defined, highly
efficient algorithmic trading strategies, and manage multiple user
accounts simultaneously, all while being scalable to support an
expanding user base.

1. Tech Stack

- o **Programming Language:** Python, reactJS
- Tools:
- Machine Learning: PyTorch, Scikit-learn
- LLM-based translation: OpenAI's GPT API

2. Data Source(s)

Cryptocurrency Exchanges APIs: Binance API, Coinbase Pro API, Bitfinex API and Kraken API

3. Implementation Overview

- Developed and fine-tuned the following five predefined algorithmic trading approaches:
 - Mean Reversion: Detects market conditions where assets are overbought or oversold.
 - Momentum Trading: Takes advantage of market trends to maximize profits.
 - o **Arbitrage:** Leverages price differences across multiple exchanges.
 - Dollar-Cost Averaging (DCA): Regularly invests a fixed amount to reduce market timing risks.
 - High-Frequency Trading (HFT): Executes a large volume of trades at lightning-fast speeds.

4. Security and Privacy:

- -Implemented robust security measures to protect user data and funds.
- -Adhered to industry best practices for data encryption and secure API key management.