**Project Proposal (PhoenixToken)**

This project aims to develop a Python-based the Binance API

**Executive Summery :**

* Fetch real-time cryptocurrency prices and market data.
* Visualize price trends and patterns.
* Analyze historical data using basic AI techniques.
* Explore potential price prediction strategies.

**Objectives:**

* Enhance understanding of cryptocurrency market dynamics.
* Experiment with AI-based price prediction techniques.
* Develop a tool for personal cryptocurrency investment research.

**Scope:**

* Establish secure connections to the Binance API.
* Retrieve and organize various market data streams.
* Implement data visualization using Python libraries.
* Explore AI techniques for time series analysis and prediction.
* Create a user-friendly interface for data exploration.

**Features:**

* Real-time price fetching and visualization.
* Basic AI prediction models

**Tools and Technologies:**

* Python programming language.
* Binance API.
* Python libraries requests: pandas, matplotlib, scikit-learn.

**Methodology:**

* Set up Python environment and install necessary libraries.
* Interact with Binance API to retrieve data.
* Explore AI prediction models and evaluate their performance.
* Develop a user-friendly interface .
* Test and refine the toolkit.
* Document the project and provide usage instructions.

**Project Schedule:**

* Week 1: Environment setup, API interaction, data retrieval.
* Week 2: Data structuring, visualization, prediction model exploration.
* Week 3: Model refinement, interface development, testing.
* Week 4: Documentation and presentation.

**Evaluation:**

* Accuracy of data retrieval and visualization.
* Performance of prediction models.
* User satisfaction with interface and functionality.
* Potential for further development and integration with other tools.