

System Explanation Document

Overview Our system is designed to provide advanced data analysis and trading functionalities through seamless integration with major cryptocurrency exchanges and the utilization of a large language model (LLM). Below, we outline the key components of our system, its operations, and the recent addition of a notification system for efficient communication.

System Components

1. Exchange Integration

- This module handles the integration with major cryptocurrency exchanges to retrieve data and perform trades.
- **Key Features:**
 - Retrieval of historical data from the integrated exchanges.
 - Execution of trading operations based on predefined rules and patterns.
 - Currently integrated exchanges: **Kraken Pro** and **Coinbase**.

2. LLM-Based Pattern Analysis

- This module employs a large language model (LLM) to analyze recent market trends and detect specific trading patterns.
- **Operation Details:**
 - The system continuously monitors the last 8-10 15-minute candles.
 - If these candles satisfy the initial threshold of a significant upward trend, they are flagged for further monitoring.
 - The flagged data is analyzed for the following pattern:
 1. A deviation is created as the market makes a new high.
 2. The system identifies a diagonal downward movement below the deviation.
 - Upon detection, the price data is sent to the LLM for deeper pattern recognition. The specific pattern analyzed is visually represented as follows: *(Attach visual representation similar to the uploaded diagram here)*.
- **Pattern Explanation:**
 - A sharp upward trend is followed by a consolidation phase.
 - The price then forms a new high, triggering liquidity, before entering a diagonal downward trend that breaks below the consolidation zone.
 - A new downward diagonal trend emerges, with the consolidation levels acting as resistance below.

Notification System

- A notification module has been integrated to ensure prompt communication of important actions and events.
- **Features:**
 - Email notifications for detected patterns and executed trades.
 - Alerts for critical system updates and trading signals.