

# Automated Execution Engine PROTOTYPE

Live simulation of the "Slippage-Aware Kelly" patent architecture using Gemini API

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## Market Parameters

Market Question

Will Bitcoin reach \$100k by Q4 2025?

Context / News (RAG Simulation)

Recent analyst reports suggest institutional adoption is increasing. Federal reserve hints at rate cuts later this year. Mining difficulty has reached an all-time high.

Current Price (\$)

0.45

Bankroll (\$)

10000

 Run Engine

 Find Correlations

## Layer 1: Calibrated Probability

REASONING

MODEL PROBABILITY

Waiting for input...

MODEL PROBABILITY

--%

CI: [--, --]

**Layer 2: The Critic**

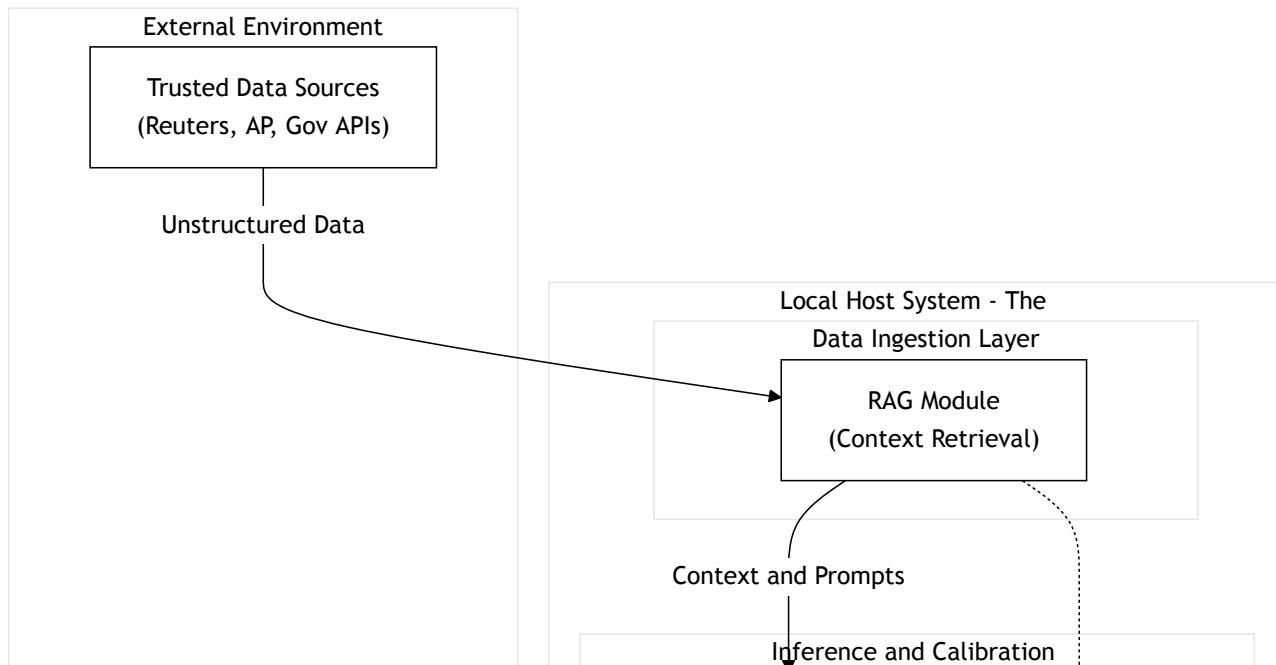
*Run simulation to check  
hallucinations.*

**Layer 3: Execution**

Suggested Action:	<b>WAIT</b>
Kelly Bet Size:	<b>\$0.00</b>
Exp. Slippage:	<b>0.0%</b>

## SYSTEM ARCHITECTURE DOCUMENTATION

## SYSTEM ARCHITECTURE



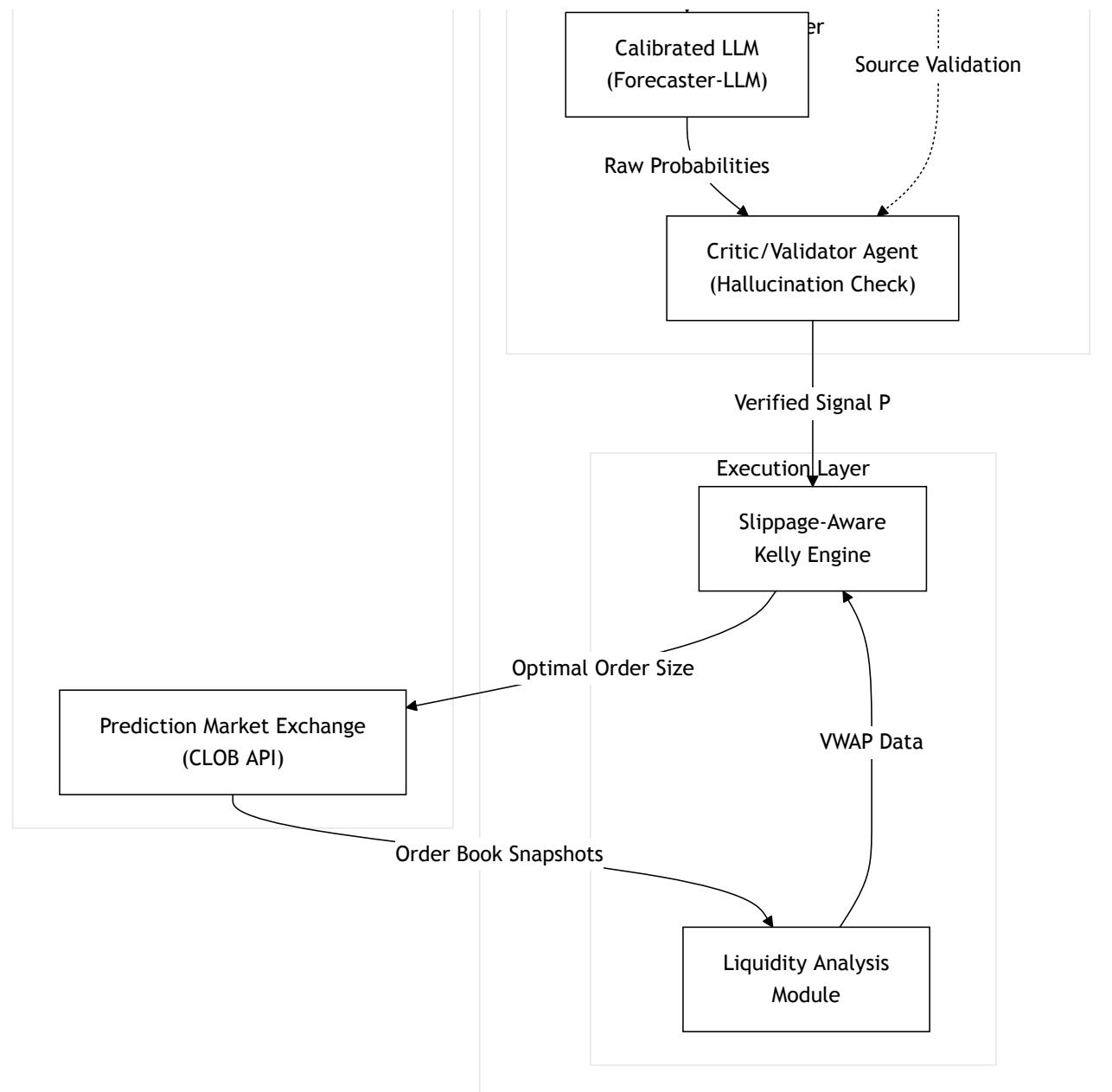
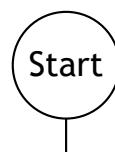
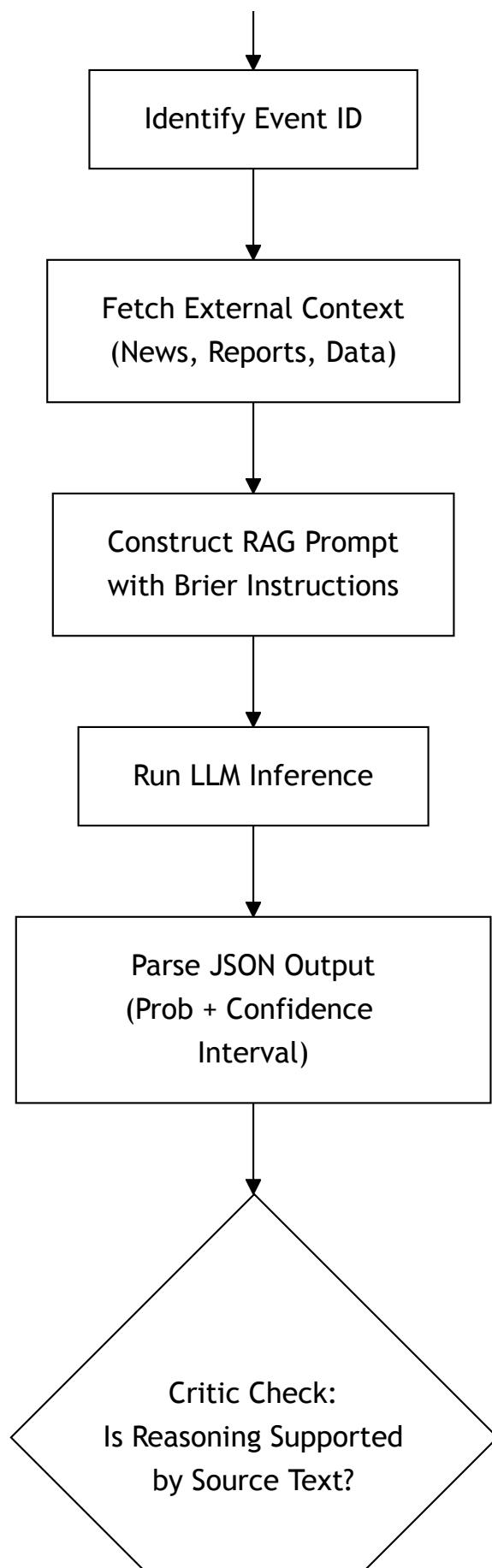


FIG. 1: Block diagram of the overall system architecture.

## RAG CALIBRATION FLOW





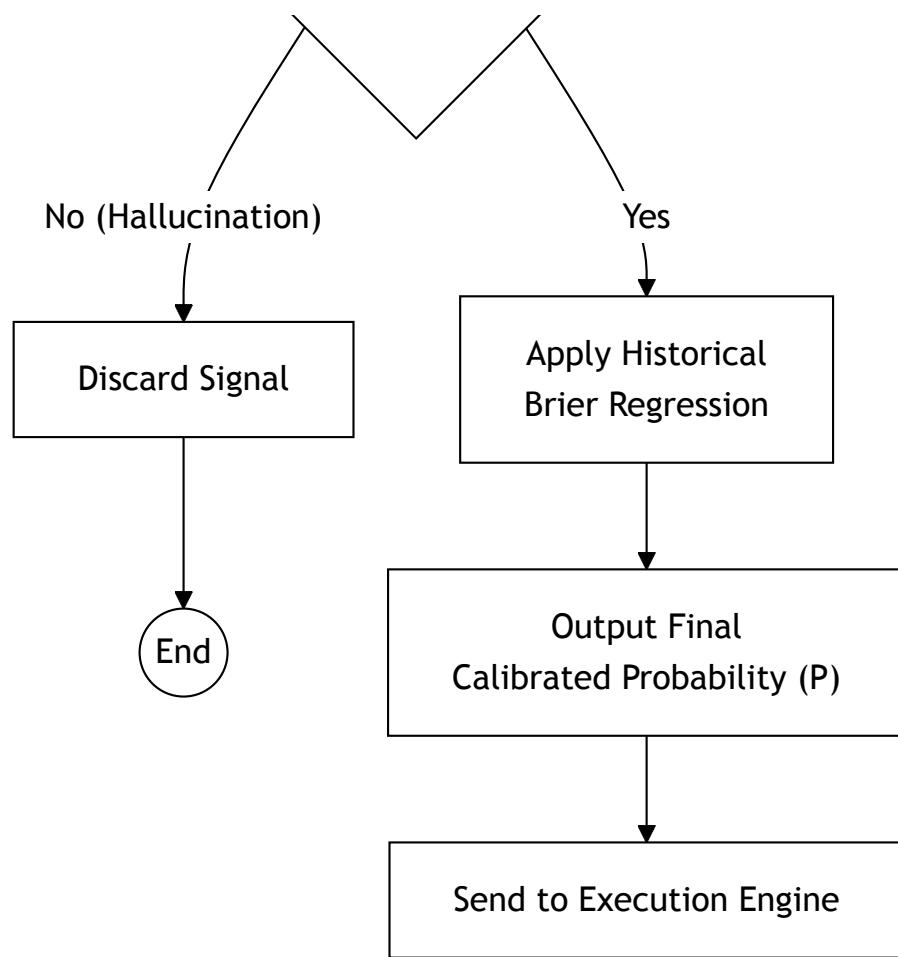
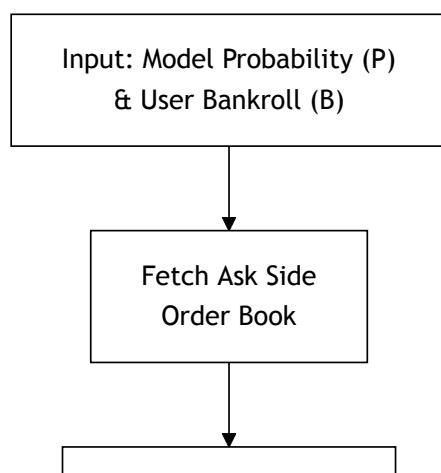
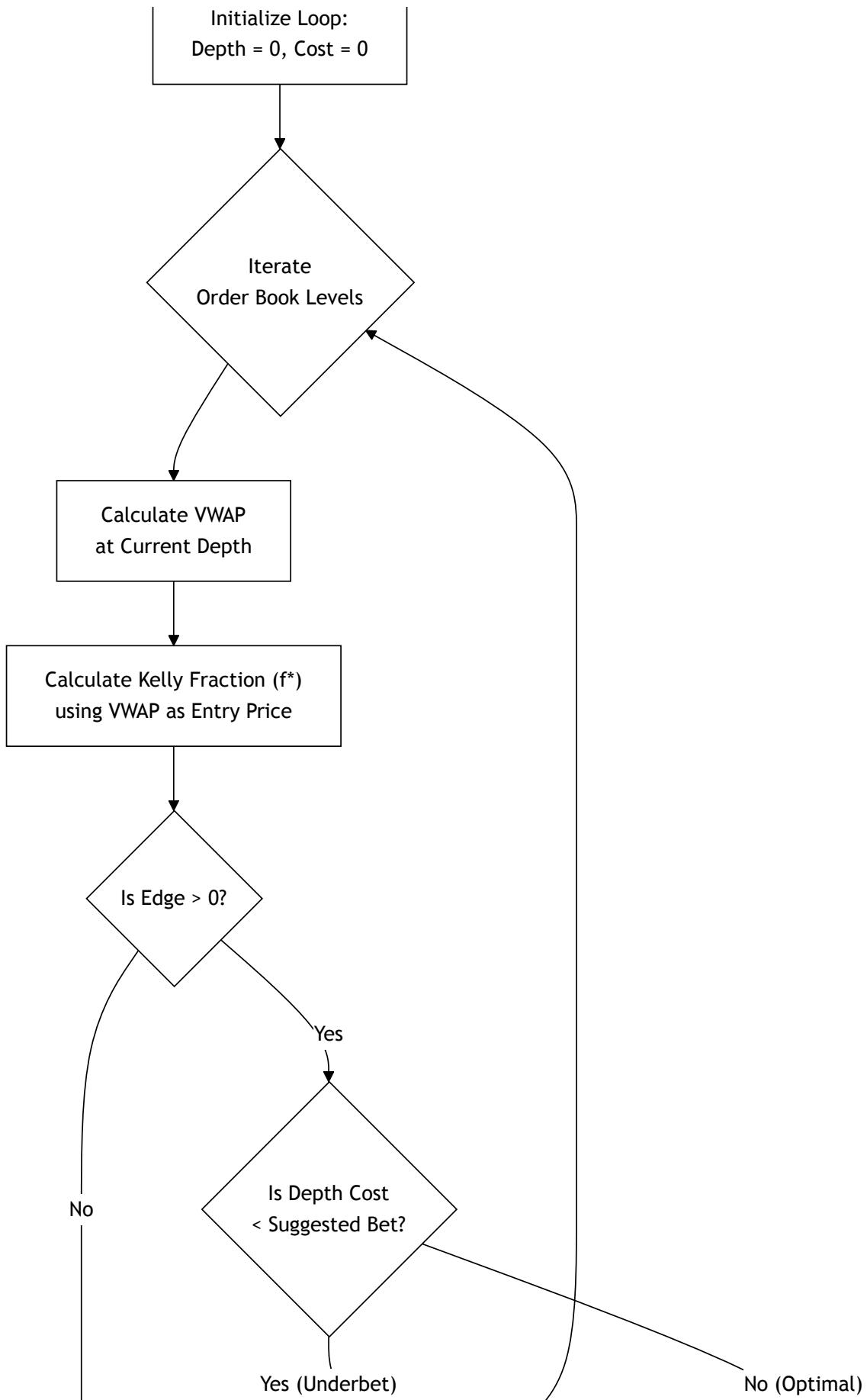


FIG. 2: Flow chart illustrating the "RAG-based Calibration" process.

## SLIPPAGE-AWARE KELLY LOGIC





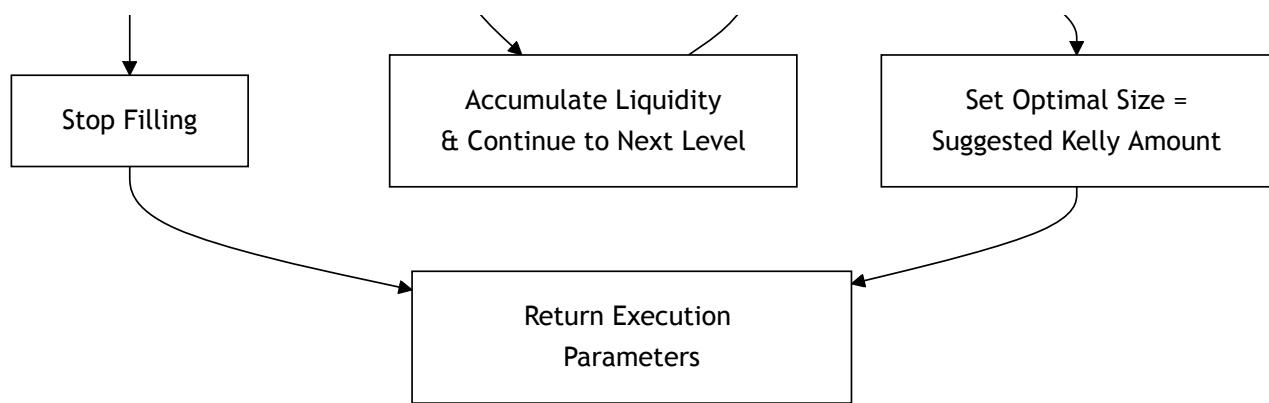


FIG. 3: Logic diagram of the "Slippage-Aware Kelly" algorithm.