

BotWeiser

Intelligent Blockchain Bot Finder

2024 UCSB Capstone
Sponsored by Forta

Forta Infinity



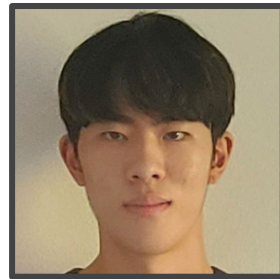
Abel Atnafu
(Lead)



Junhwan Lee
(Scribe)



Vikram Elango



Taeho Kim



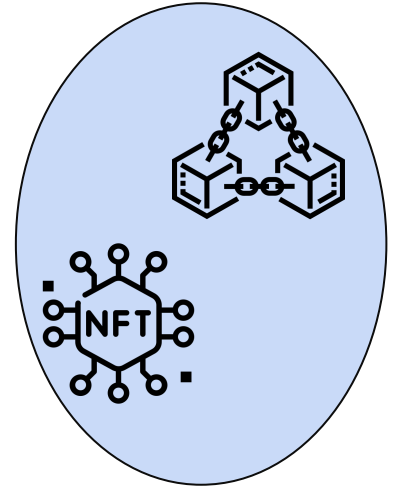
Kenji Kano



What is Forta?

Our sponsor

Forta utilizes network of machine learning **Blockchain Bots** to ensure security and operational monitoring of blockchain and NFT activities.



What is a Blockchain Security Bot?

stolen-nft-bot

General Data

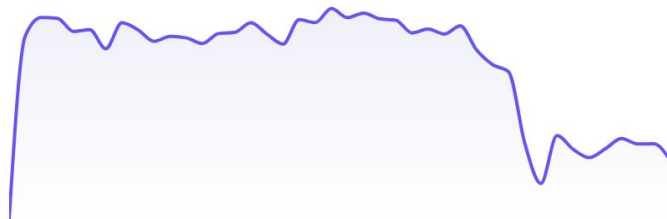
Buy plan

by Forta Foundation • v0.0.4



This bot will alert/label likely stolen NFTs

This bot was created 9 months ago and currently supports 1 networks. Over the past 7 days, it has emitted 9338 alerts and 9306 labels. The last update was made 7 months ago.



 Go to alerts

 Source code

Need some help?

 Forta Support

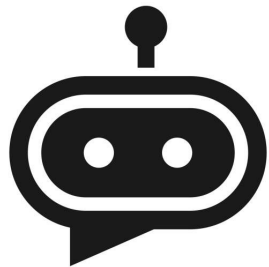


Demo

Our Solution: BotWeiser

Intelligent Blockchain Bot Finder

Conversational



Fast Query



Scalability

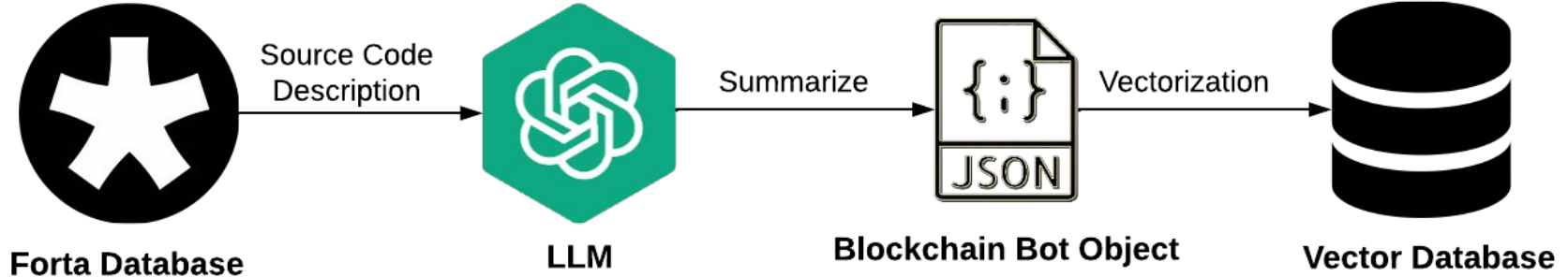




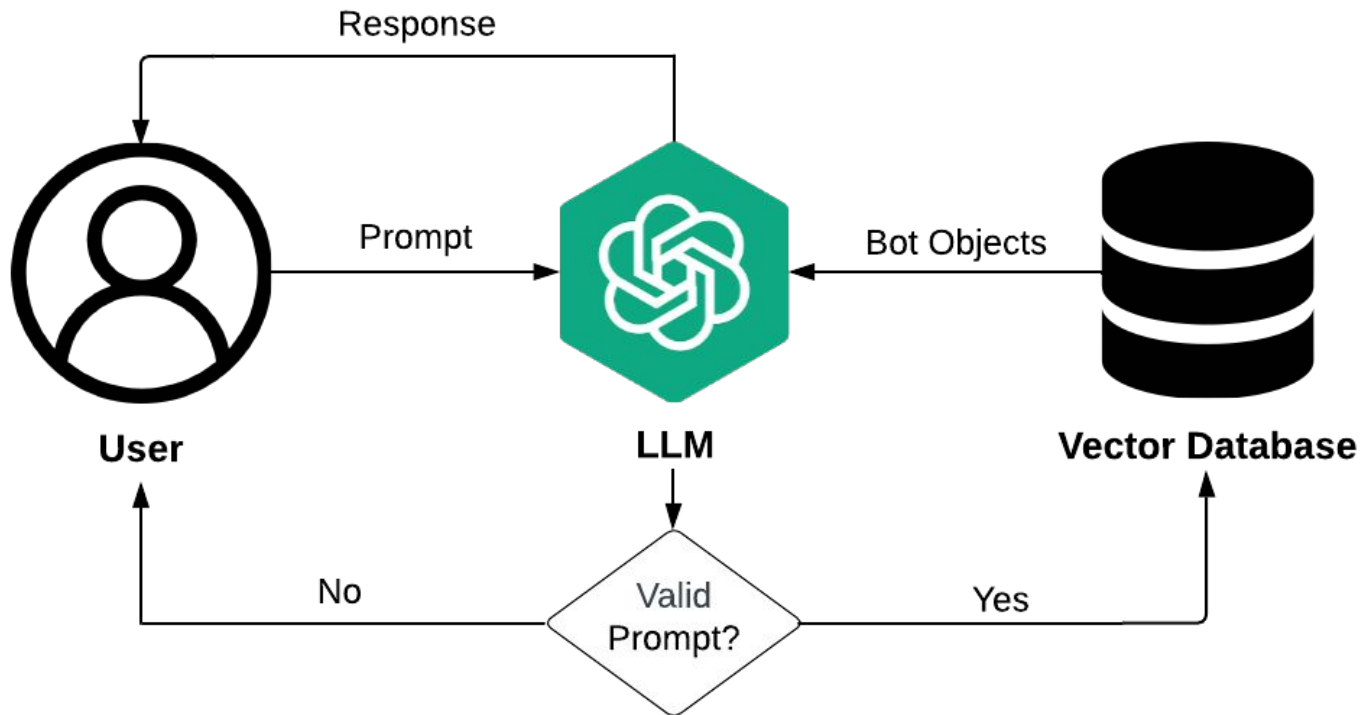
Architecture Overview

1. **Data Processing**
2. **BotWeiser**

Data Processing

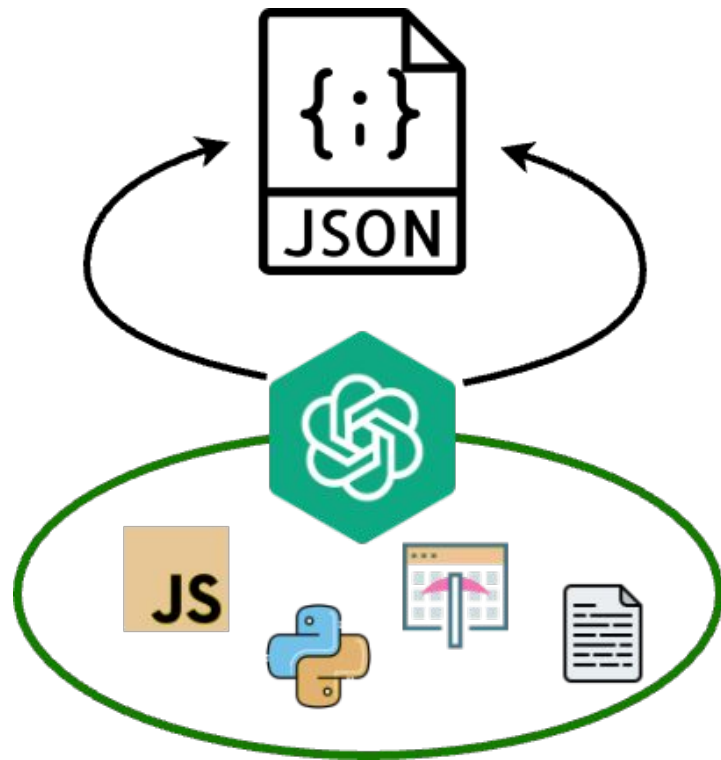


BotWeiser



Data Processing

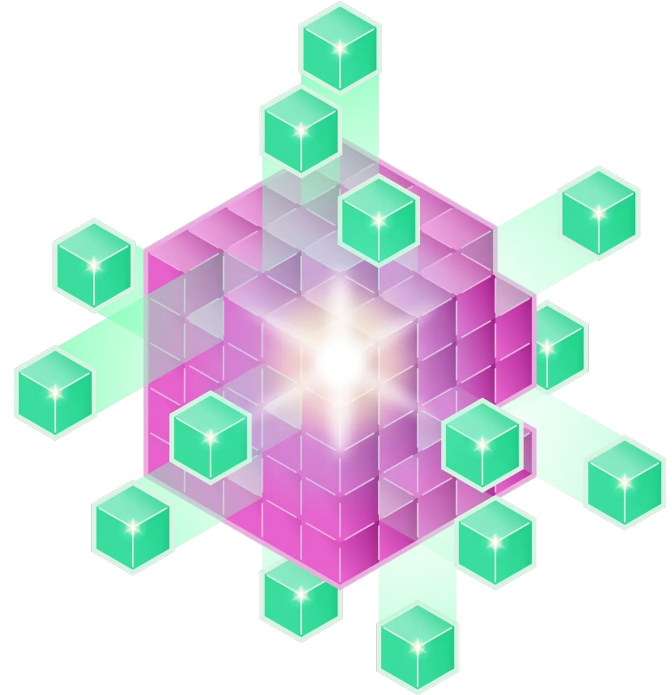
Powered by Large Language Models



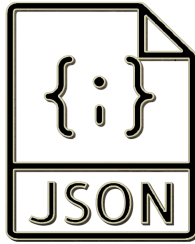


Vector Database

Lightning-fast data retrieval of complex
blockchain bots objects



How to make these Vectors?



Blockchain Bot Object

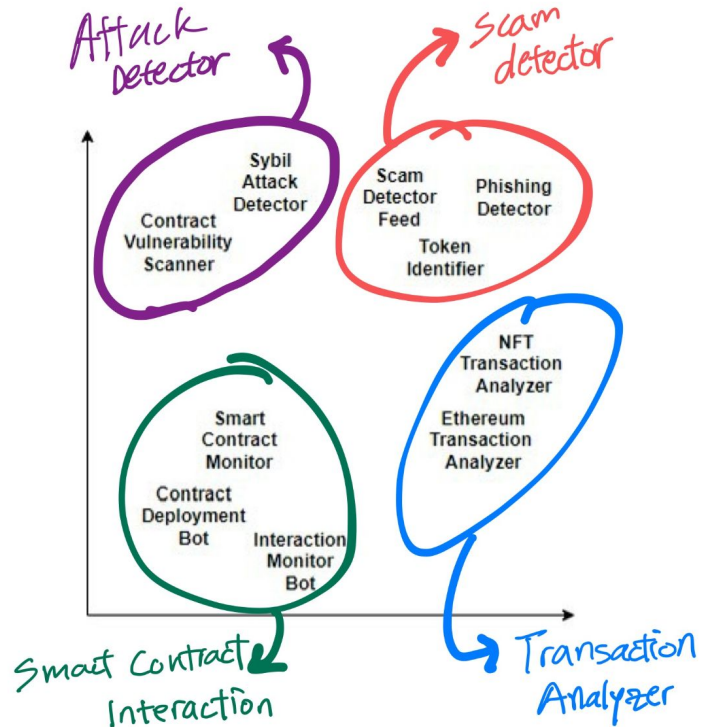


Open AI Embedding

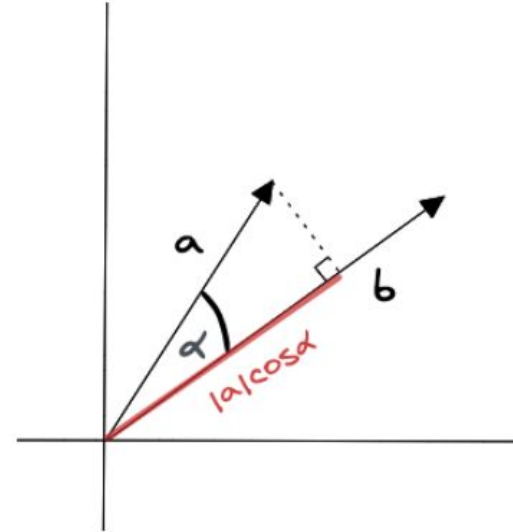


Vector

Vector Database



Multi-Dimensional Clusters to map the similar vectors



Retrieving Vectors

Semantics Searching

Vector Similarity Search

User prompt is converted into an input text for nearest text operator

Input text will have key concepts.

“scam detector”, “smart contract”, etc...

Generative Searching

Natural Language Processing(NLP)

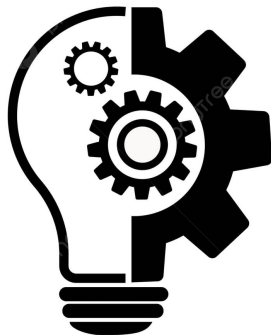
Employ NLP to generate explanation on why certain Blockchain Bot is retrieved

Applicable Framework Implementation

Product Recommendation
Engine



Open Source Interface



Market Search



Thank You

Any Questions?

