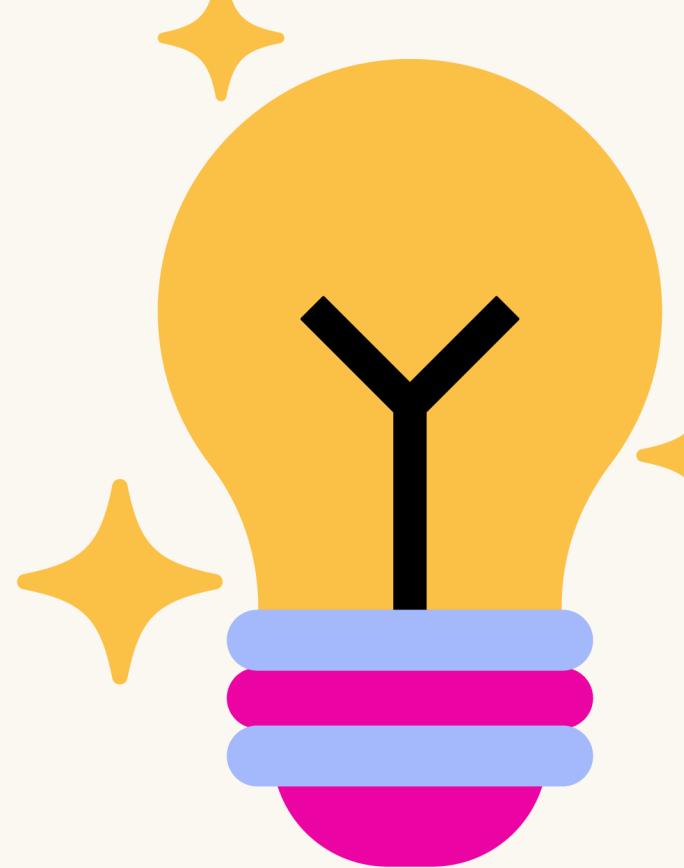
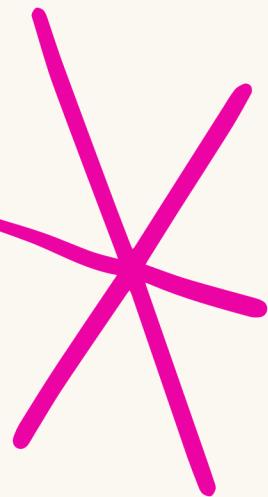
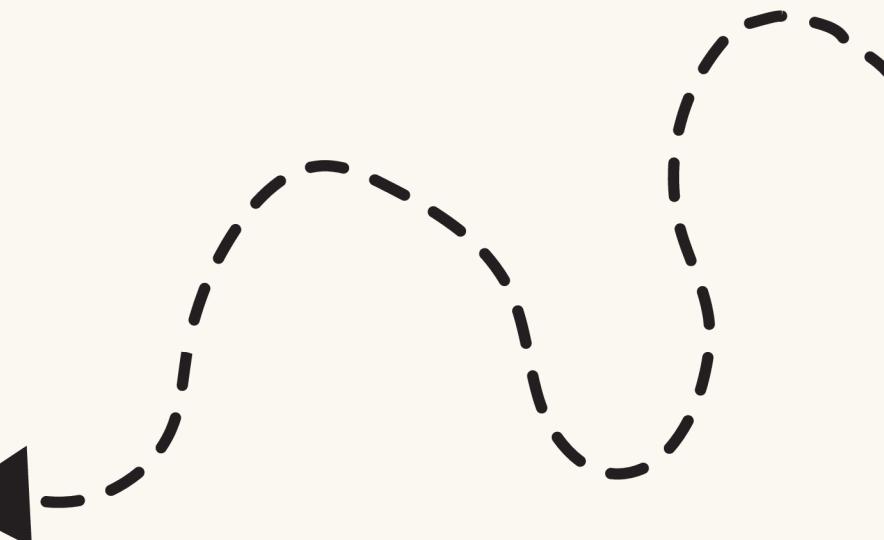


By Tong Huang, Austin Ma, Kevin Xu



Twitter ←



**DEBATE ANALYZER**



# WHY WE NEED THIS

1

Debates and narrative  
happening in the Crypto  
Twitter

2

It is necessary to access and  
understand these discussions

3

Using our Debate Analyzer

# Important FUNCTION

The diagram features a central text 'Important FUNCTION' in large, bold, black font. Six dashed arrows radiate from this center to six rounded rectangular boxes, each containing a function name and a brief description. The functions are arranged in two rows: top row (1, 2) and bottom row (3, 4, 5, 6). The boxes have a slight shadow and are color-coded: 1 (light green), 2 (yellow), 3 (orange), 4 (purple), 5 (pink), and 6 (teal). Small pink hand-drawn style arrows point towards the central text from the top and bottom.

## 1. Refined Fetching

Using provided api & our own program to fetch newest debate & news

## 2. Multi-Agent Model

- incorporates a Multi-Agent Model, leveraging multiple specialized models—including sentiment analysis, topic relevance detection, influence scoring, and debate structuring—to provide a comprehensive and multi-faceted analysis of Crypto Twitter discussions.

## 3. RAG

- Using Retrieval-Augmented Generation (RAG) to enhance debate analysis with relevant context and accurate summaries.

## 4. Normalization-based Scoring

- calculates a conflict intensity score by normalizing engagement metrics, applying temporal decay, and factoring in user influence to quantify the significance of Twitter debates.

## 5. Text-Based Issue Ranking

- calculates issue importance scores by combining TF-IDF text analysis with normalized engagement metrics, ensuring a data-driven ranking of key topics in Crypto Twitter debates.

## 6. Sentiment-Driven Stance Analysis

- determines stance scores by combining VADER sentiment analysis, domain-specific keyword adjustments, and topic relevance filtering, providing a nuanced view of opinion trends in Crypto Twitter debates.

# How it works

## Data Collection

- Fetches tweets from influential Crypto Twitter accounts using the provided API.
- Uses natural language processing (NLP) to detect emerging debates and conflicts.

## Sentiment & Influence Analysis

- Determines the importance of issues based on tweet engagement (likes, retweets, comments).
- Evaluates the influence of involved accounts using follower count, engagement history, and authority metrics.

## Debate Structuring

- Using ai to extract key points from both sides of a debate.
  - Identifies supporting and opposing arguments.
  - Summarises the main narratives.

## Event Correlation

- Matches ongoing debates with real-world events that might have triggered or influenced them.

## Possible USES CASES



- CRYPTO INVESTORS & TRADERS

Stay updated on influential debates that may impact market sentiment.

- COMMUNITY MANAGERS

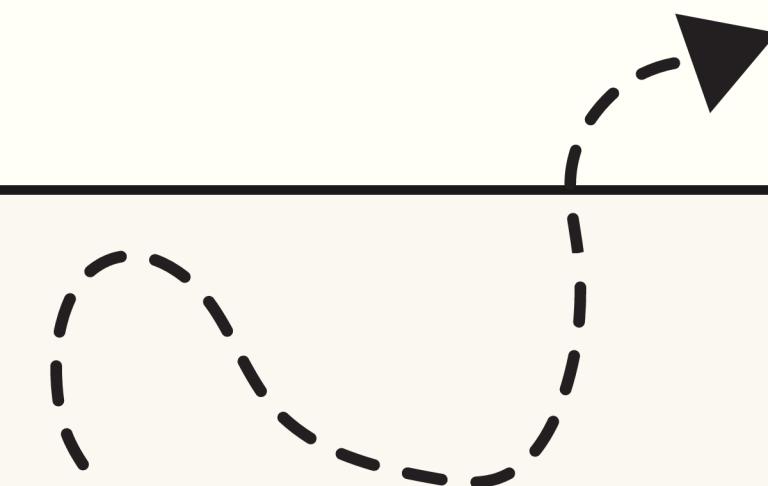
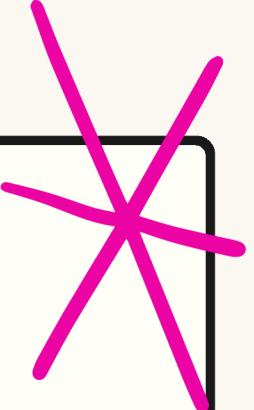
Understand public sentiment shifts and potential controversies.

- ANALYSTS & RESEARCHERS

Gain structured insights into the evolving narratives of Crypto Twitter.

- MEDIA & NEWS OUTLETS

Quickly identify and summarize key crypto-related discussions.



# Example Output With MA - Part 1

```
E: > 1.log
1 ****
2 Starting a new chat....
3 ****
4 newsSelector (to Debate_Adviser):
5
6 Try to make more clear and concise points always use quotes, like as @username says '....'
7
8 -----
9
10 >>>>> USING AUTO REPLY...
11 Debate_Adviser (to newsSelector):
12
13 Understood! Please share the comments you'd like me to analyze, and I'll sort them into affirmative (positive) and negative categories based on their stance.
14
15 -----
16
17 >>>>> USING AUTO REPLY...
18 newsSelector (to Debate_Adviser):
19
20 Sure! Share the topic or arguments, and I'll help you craft clear, balanced points for your debate.
21
22 -----
23
24 >>>>> USING AUTO REPLY...
25 Debate_Adviser (to newsSelector):
26
27 It seems you're asking about structuring arguments rather than providing specific comments for categorization. Please provide the comments or arguments related to the crypto market, and I'll sort them into a
28
29 -----
30
31 ****
32 Starting a new chat....
33 ****
34 newsSelector (to AssistantRecorder):
35
36 Record the key points and main ideas discussed by the agents
37 Context:
38 It seems you're asking about structuring arguments rather than providing specific comments for categorization. Please provide the comments or arguments related to the crypto market, and I'll sort them into a
39
40 -----
41
42
43
```

# Example Output With MA - Part 2

```
>>>>> USING AUTO REPLY...
INFO:htpx:HTTP Request: POST https://ai.tzpro.xyz/v1/chat/completions "HTTP/1.1 200 OK"
newsSelector (to Judge):
```

Certainly! Here's a crypto market debate topic to get us started:

```
**Debate Topic: Should cryptocurrencies replace traditional fiat currencies as the primary medium of exchange?**
```

```
### Affirmative Argument:
```

Cryptocurrencies should replace traditional fiat currencies because they offer greater financial inclusivity and efficiency. Blockchain technology enables faster, cheaper, and more secure transactions, especially for international payments.

```
### Negative Argument:
```

Cryptocurrencies should not replace traditional fiat currencies because they lack the stability needed to function as a reliable medium of exchange. Price volatility makes it difficult for individuals and businesses to trust in the long-term value of cryptocurrencies.

What side do you take? Or would you like to elaborate on either argument?

---

```
>>>>> USING AUTO REPLY...
INFO:htpx:HTTP Request: POST https://ai.tzpro.xyz/v1/chat/completions "HTTP/1.1 200 OK"
Judge (to newsSelector):
```

```
**** Suggested tool call (call_Yx2S5cDKsBuxGs05bVnGvaNP): search_on_google ****
```

Arguments:

```
{"keyword":"benefits of cryptocurrency over fiat"}
```

```
*****
```

```
*****
```

Starting a new chat....

```
*****
```

```
newsSelector (to Debate_Participant_A):
```

Start the debate, support your arguments with clear and concise points, you are working for a crypto company and you are asked to provide daily updates on the crypto market by handling debates.

Context:

It seems you're asking about structuring arguments rather than providing specific comments for categorization. Please provide the comments or arguments related to the crypto market, and I'll sort them into appropriate categories.

Got it! You're confirming that you're ready to help categorize specific arguments or comments into affirmative (positive) and negative (opposing) stances when provided. Let me know when you're ready to share your thoughts.

# THANK YOU!

