

# Rhetorical Strategies in Web3 Twitter Discourse: **Emojis, Jargon, and Sentiment** in Memecoin vs. SocialFi

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### Methodology

#### Dual Analytical Framework

This research employs a two-pronged approach to analyze rhetorical strategies: sentiment-based analysis of emotional and rational appeals, and interactional analysis via language mirroring.

#### Sentiment Analysis Model with Domain-Specific Features

A customized sentiment model based on TextBlob is developed, treating emojis and Web3-specific jargon as rhetorical devices to capture pathos (emotional) and logos (rational) appeals in project tweets.

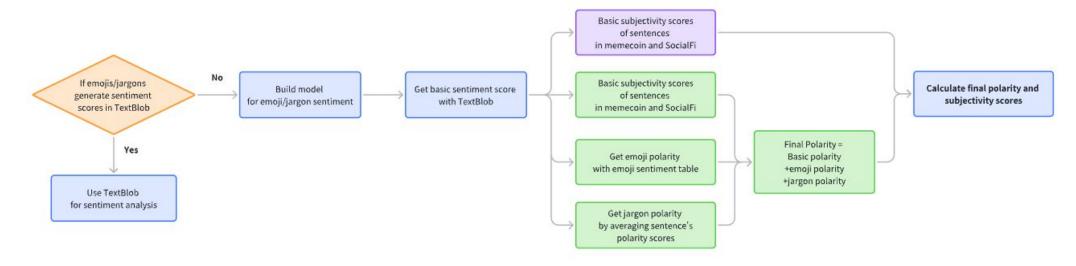
#### Language Mirroring Analysis

Language repetition patterns are examined by comparing lexical overlaps between official project tweets and user replies, aiming to assess community alignment and rhetorical resonance.

#### Dataset Construction and Comparative Analysis

Tweets from memecoin and SocialFi projects were collected and cleaned to form sector-specific corpora. Comparative metrics were then applied to identify differences in rhetorical features and their correlation with user engagement.

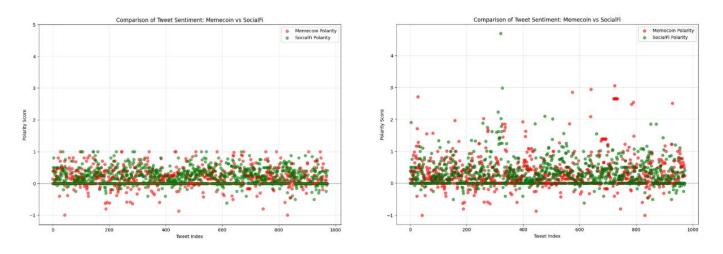
### **Sentiment Analysis Model Design**



- A custom sentiment analysis model was built on TextBlob, extended with polarity scores for emojis
  and Web3-specific jargon to capture domain-specific emotional cues.
- Polarity score assignment: Emoji sentiment was quantified using Novak et al.'s (2015) polarity rankings, while jargon polarity was approximated by averaging the polarity of sentences containing each term.
- The final polarity score is the unweighted sum of text, emoji, and jargon polarities—prioritizing interpretability over statistical normalization to emphasize rhetorical intensity.



### **Key Results of Sentiment Analysis**



- Scatter Chart of TextBlob(left) and New Model(right)
  - Prinal Polarity Statistics

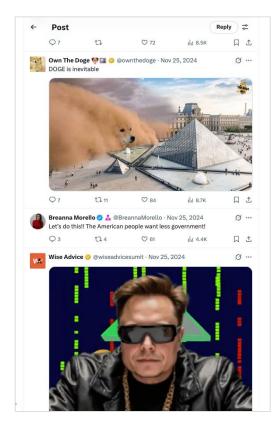
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Bar Chart of TestBob(left) and New Model(right)

- Memecoin Tweets Exhibit Greater Emotional Variability with a difference in standard deviation in polarity score: 0.52 vs 0.42.
- Memecoin Tweets Contain More Rhetorical Devices of emojis and jargons.
- Distinction in Rhetorical Strategies:
   Memecoin Projects adopt
   Pathos-driven strategy VS SocialFi
   projects Rely on Logos-driven
   expressions

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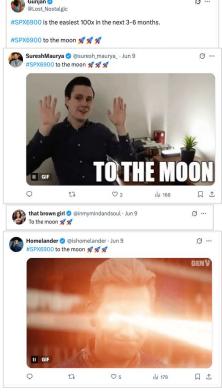
### Key Results of Language Mirroring in memecoin



User-generated meme for DOGE memecoin



Repeated GM (Good morning) of followers of #shib memecoin



The mirroring "TO THE MOON" response from followers

 High Degree of Lexical Mirroring in Memecoin Communities: replicated project-specific expressions—such as emojis, and meme—demonstrating emotional

resonance.

Emergence of User-Initiated
 Variations and Reframings: users actively reframe project language to generate new expressions, memes, and slogans, suggesting a participatory rhetorical ecosystem



### **Discussion**

# Limitations

- High-Context Semantics Are
   Underrepresented: the model fails to capture deeper semantic meanings and contextual nuances.
- Jargon Scoring Relies on Subjective
   Assumptions: the polarity scores
   assigned to jargons are based on
   average sentence polarity,
   introducing ambiguity and limits.

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- Applying Sentiment Analysis to Rhetorical Strategy Analysis: identifying and evaluate rhetorical strategies in emerging digital spaces.
- Practical Guidance for Web3
   Community Management: revealing how different rhetorical approaches align with specific project types and community goals.

