

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.

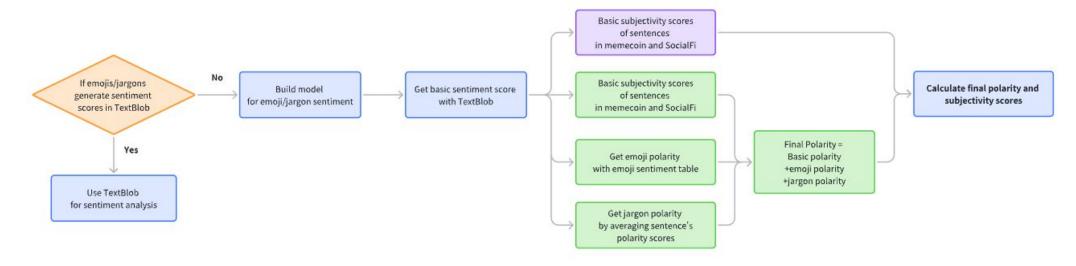
Language Mirroring Analysis

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.

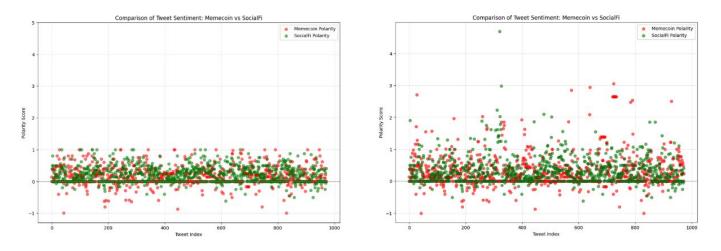
Sentiment Analysis Model Design



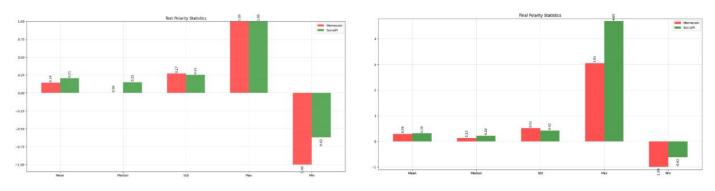
- A custom sentiment analysis model was built on TextBlob, extended with polarity scores for emojis
 and Web3-specific jargon to capture domain-specific emotional cues.
- Polarity score assignment: Emoji sentiment was quantified using Novak et al.'s (2015) polarity rankings, while jargon polarity was 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



Scatter Chart of TextBlob(left) and New Model(right)



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
- Higher language Mirroring in Memecoin Communities when evaluating tweets replies.

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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.

