3XEOLF 3HUFHSWLRQ DQG 0DUNHW 5HVSRQVH WF &ROODSVH \$ 7ZLWWHU \$QDO\VLV

Abstract

This study explores the public sentiment surrounding the FTX incident, utilizing advanced sentiment analysis and topic modeling techniques lyze a dataset of 300,000 tweets. The research aims to uncover how public perceptions, expressed through social media, correlate with market dynamics during the three phases of the FTX crisis: Before, During, and After the incident. Sentiment analysis vealed significant shifts from positive to predominantly negative sentiments as the crisis unfolded, reflecting the public's response to unfolding events. Topic modeling identified key themes such as financial downfall, geopolitical financial controversie, digital finance innovations, specific crisis events, and regulatory aftermaths, offering insights into the public's concerns and discussions. The regression analysis further demonstrated the impact of past sentiments and market performance on fultertoelaavior, emphasizing the role of sentiment analysis as a predictive tool in financial markets. This paper contributes to the understanding of the interplay between public sentiment and market reactions, highlighting the potential of social media aseal-time barometer of public mood in financial contexts.

Keywords:

Sentiment Analysis, Topic Modeling, FTX Incident, Cryptocurrency Markets, Social Media Analytics