

ML MINI PROJECT

INTRODUCTION:

OUR PROJECT ANALYZES TWITTER COMMENTS TO UNDERSTAND USER BEHAVIOR AND PREFERENCES.

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TECHNOLOGIES USES:

- PYTHON: MAIN PROGRAMMING LANGUAGE.**
- NTSCRAPER: FOR TWITTER DATA EXTRACTION.**
- TEXTBLOB: FOR SENTIMENT ANALYSIS.**
- SCIKIT-LEARN: FOR CLUSTERING ANALYSIS.**
- MATPLOTLIB AND SEABORN: FOR VISUALIZATION.**

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RESULT ANALYSIS:

SENTIMENT ANALYSIS: MAJORITY OF COMMENTS EXHIBIT NEUTRAL OR POSITIVE SENTIMENT.

CLUSTERING ANALYSIS: COMMENTS GROUPED INTO DISTINCT CLUSTERS REPRESENTING DIFFERENT TOPICS OR THEMES.

VISUALIZATION: SCATTER PLOTS, BAR CHARTS, AND WORD CLOUDS VISUALIZE SENTIMENT AND CLUSTERING RESULTS.

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EXTRACT, ANALYZE, AND VISUALIZE COMMENTS TO UNCOVER PATTERNS AND SENTIMENTS.

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METHODOLOGY FOLLOWED:

DATA COLLECTION: EXTRACTED COMMENTS FROM TWITTER USING NTSCRAPER.

PREPROCESSING: TOKENIZATION, STOP-WORD REMOVAL, AND LEMMATIZATION.

SENTIMENT ANALYSIS: TEXTBLOB USED TO DETERMINE SENTIMENT POLARITY.

CLUSTERING ANALYSIS: K-MEANS CLUSTERING APPLIED TO GROUP SIMILAR COMMENTS.

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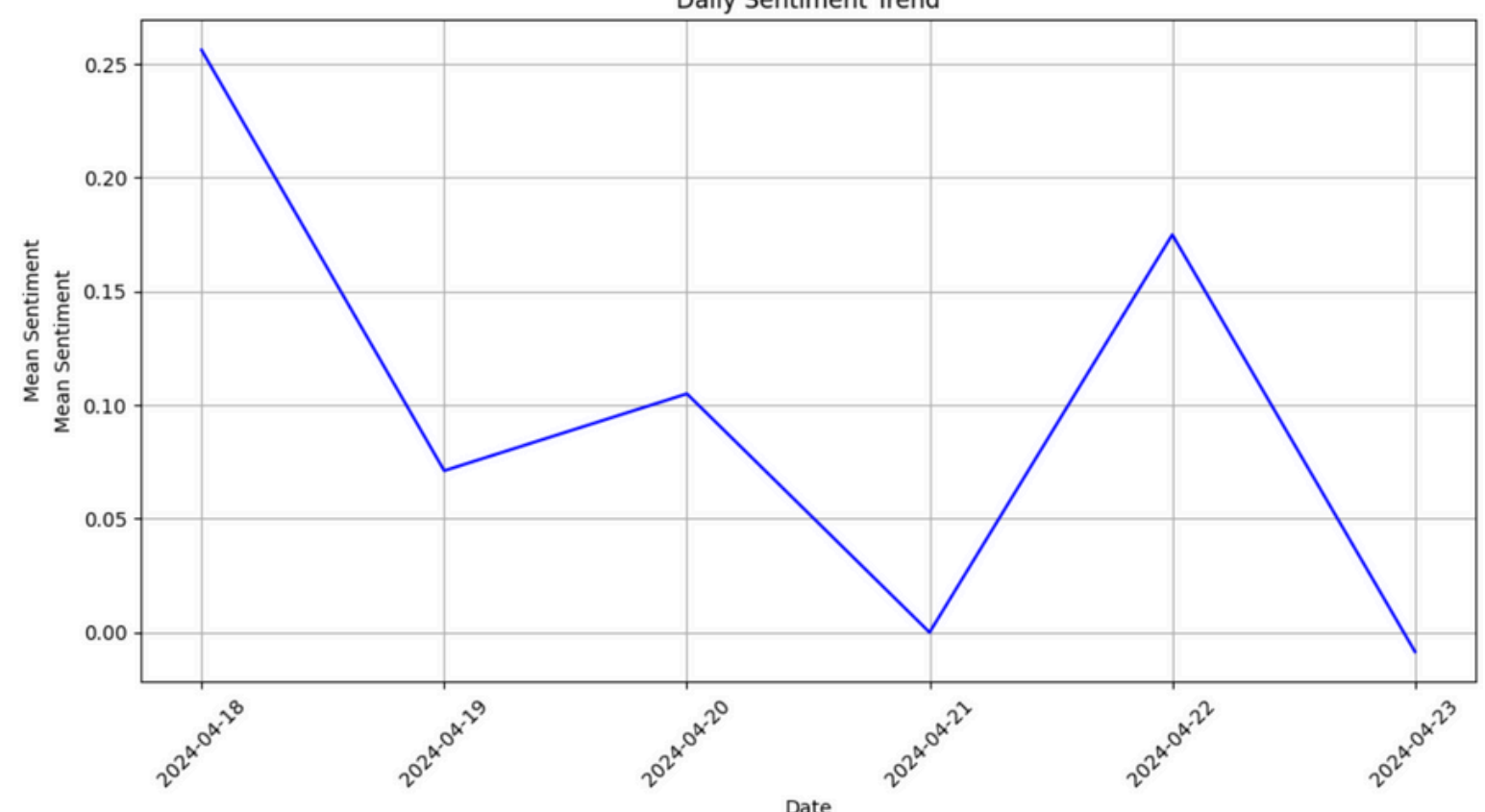
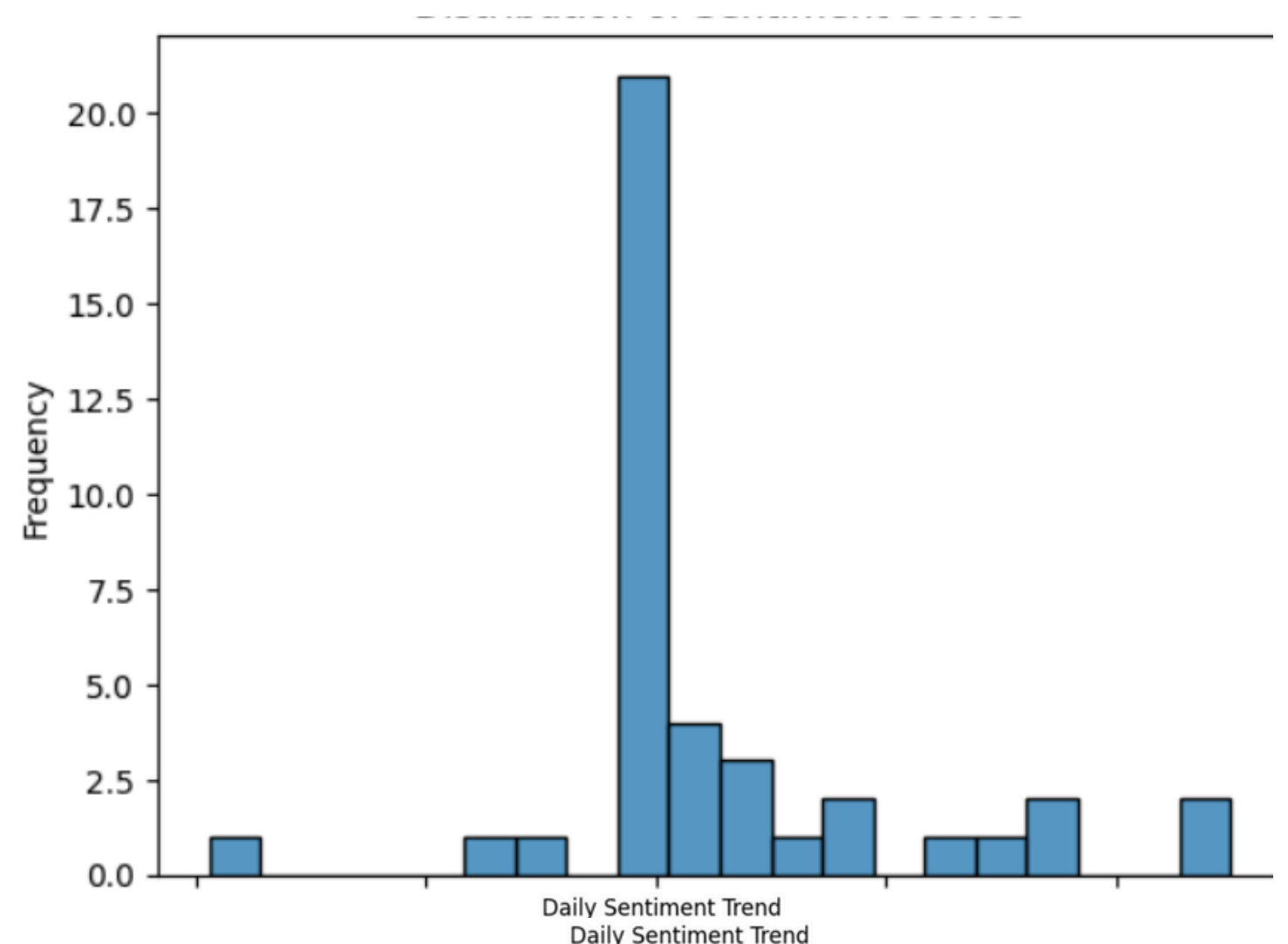
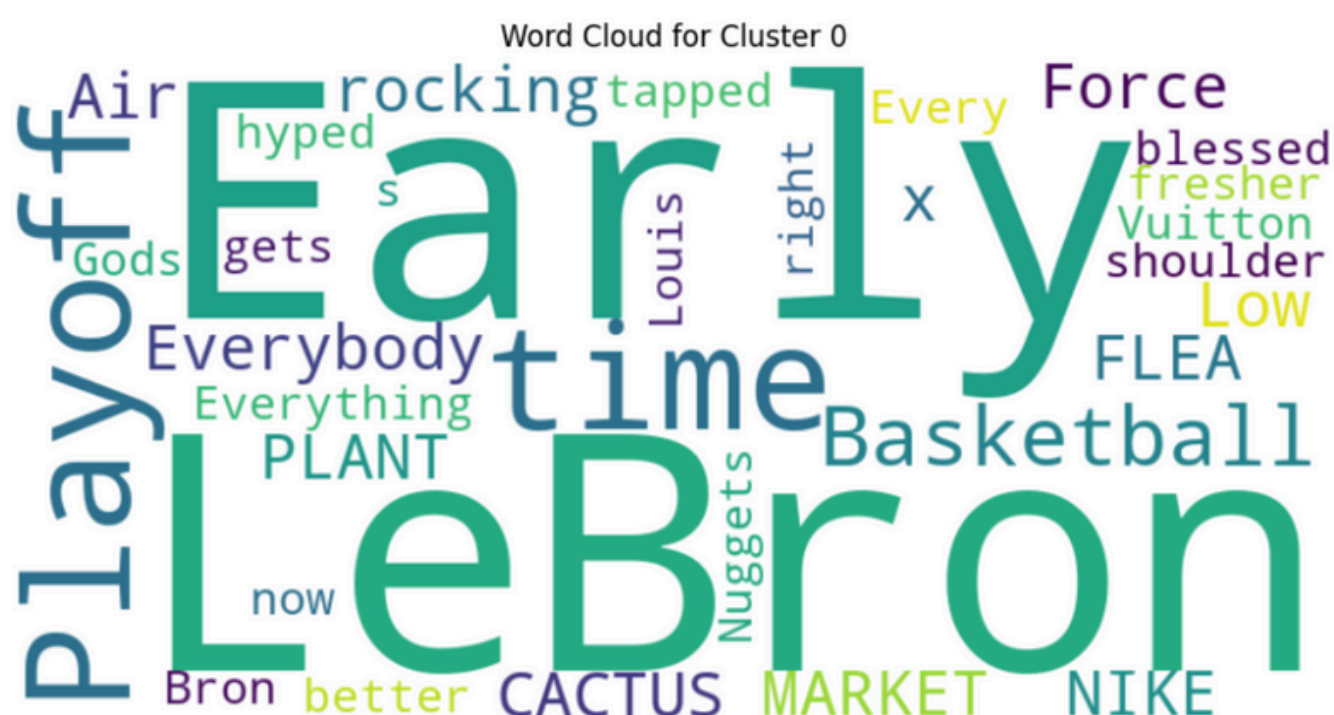
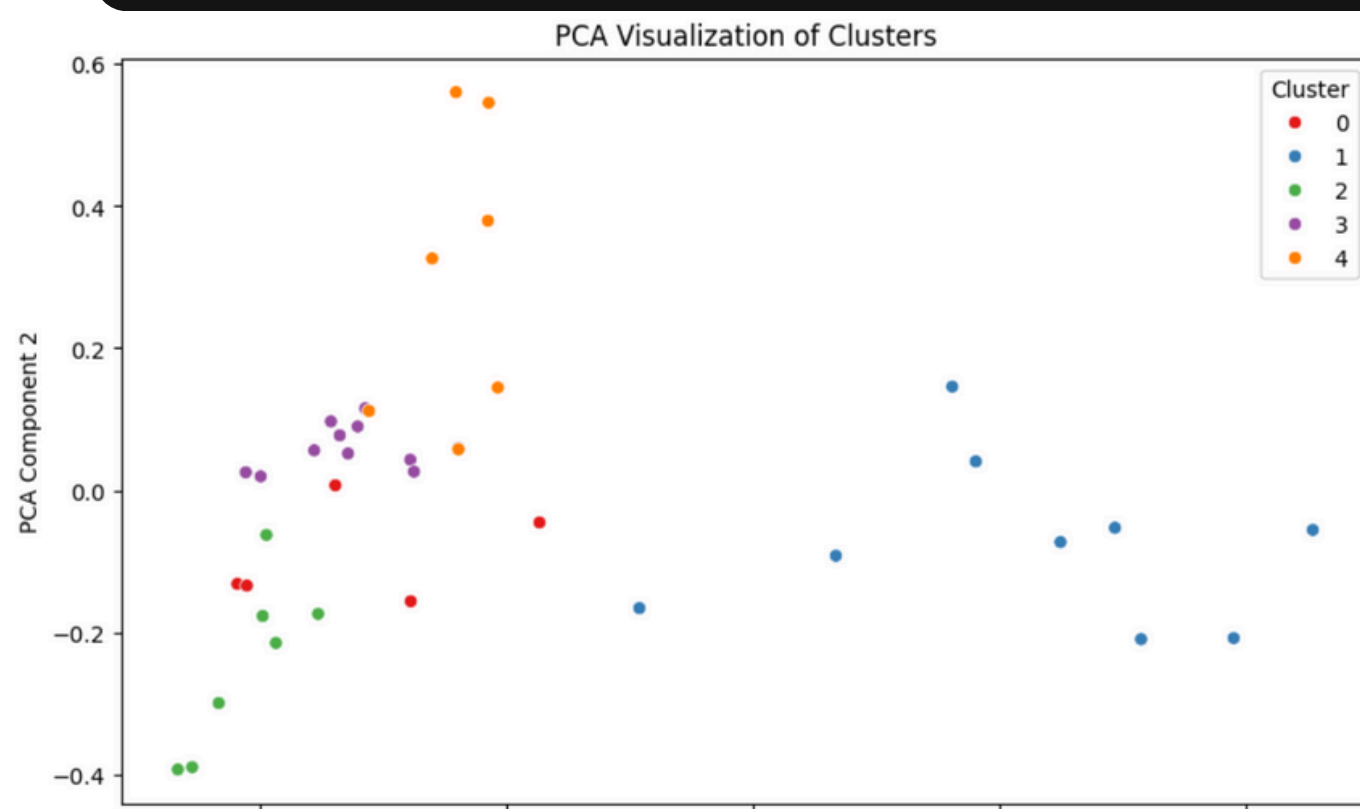
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CONCLUSION:
SUCCESSFUL ANALYSIS OF TWITTER COMMENTS TO EXTRACT INSIGHTS INTO USER BEHAVIOR.
APPLICATIONS: MARKET RESEARCH, SENTIMENT ANALYSIS, TREND PREDICTION.
DEMONSTRATES EFFECTIVENESS OF MACHINE LEARNING IN SOCIAL MEDIA ANALYSIS.

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