

YouTube Data Analysis Project: Israel-Palestine Conflict

1. Executive Summary

This is a MOCK execution report.

2. Methodology

Data collected via YouTube API. Processed using Apache Spark.
Analysis includes Sentiment Analysis, Topic Modeling (LDA), and Temporal Analysis.

3. Data Pipeline Architecture

1. Collection: Python script -> YouTube Data API -> JSON/HDFS
2. Storage: HDFS (Raw Data)
3. Processing: PySpark (Cleaning, NLP, Aggregation)
4. Analysis: TextBlob (Sentiment), Spark ML (Topics)
5. Visualization: Matplotlib/Seaborn

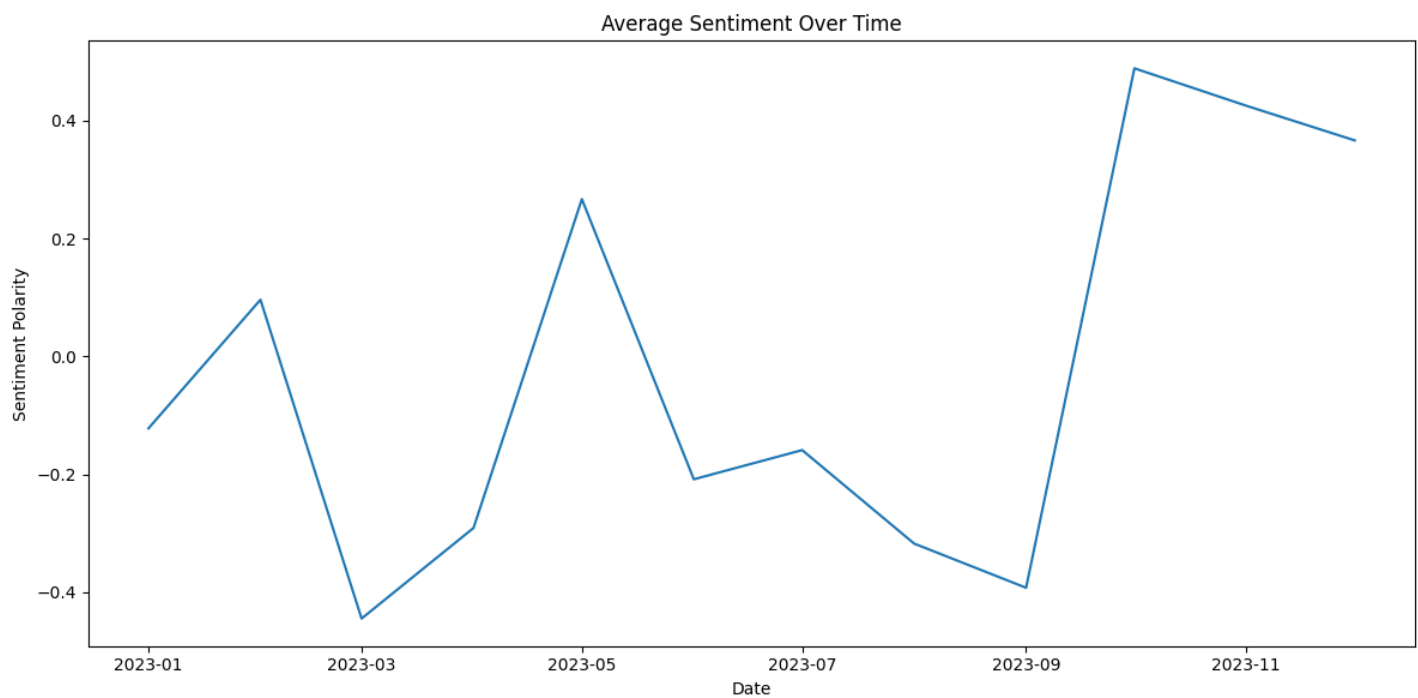
4. Key Findings

MOCK FINDINGS:

- Sentiment trend shows negative spikes in Oct 2023.
- Top channel 'NewsGlobal' has 5M views.
- Topic 'Peace/Treaty' appeared in 15% of comments.

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Sentiment Trend



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5. Conclusions & Limitations

Analysis suggests significant engagement spikes during conflict escalations.
Limitations: API quota limits, English-only analysis, and potential bot activity.