Comment Analyser

CLASS : CSE-3E

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ABSTRACT

The Youtube Comment Analyzer project aims to analyze and extract insights from comments on YouTube videos. Leveraging natural language processing and sentiment analysis, the system aims to provide valuable information about user sentiments, trends, and engagement levels within the YouTube community.

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Existing System Disadvantages:

The current system lacks a comprehensive analysis of YouTube comments, resulting in a limited understanding of user sentiments and trends. It often struggles with context comprehension and fails to provide actionable insights for content creators.

Proposed System Advantages:

The proposed system introduces advanced sentiment analysis and natural language processing techniques. It offers in-depth comment analysis, identifying sentiments, trends, and key topics. Additionally, the system provides content creators with actionable insights to enhance audience engagement and content strategy.

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Algorithms

Existing System:

Basic sentiment analysis using rule-based approaches.
Limited contextual understanding of comments.

Proposed System:

Natural Language Processing (NLP) with advanced sentiment analysis.
Machine learning algorithms for context-aware comment analysis.
Named Entity Recognition (NER) for identifying key entities in comments.

Software and Hardware Requirements:

Software

- Programming Language: Python

- NLP Libraries: NLTK, spaCy

- Machine Learning Framework: Scikit-learn

- Web Development Framework (if applicable): Flask or Django

- Database: MySQL or MongoDB

- Web Scraping (if data is not provided by API): BeautifulSoup, Selenium

Hardware

- CPU: Multi-core processor

- RAM: 8GB or higher

- Storage: SSD for faster data retrieval

- Internet Connection: Required for accessing YouTube API or scraping comments.

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Conclusion:-

In conclusion, the Youtube Comment Analyzer project seeks to bridge the existing gaps in comment analysis on YouTube. By employing advanced algorithms and technologies, the proposed system aims to offer content creators valuable insights for enhancing audience engagement, refining content strategies, and fostering a more informed and interactive community within the YouTube platform. The implementation of natural language processing and sentiment analysis algorithms contributes to a more sophisticated and context-aware comment analysis, addressing the limitations of the current system.