CSCI 8380 Term Project Proposal By : Team Raptors

Project Title: Analysis of youtube comments based on movies trailers.

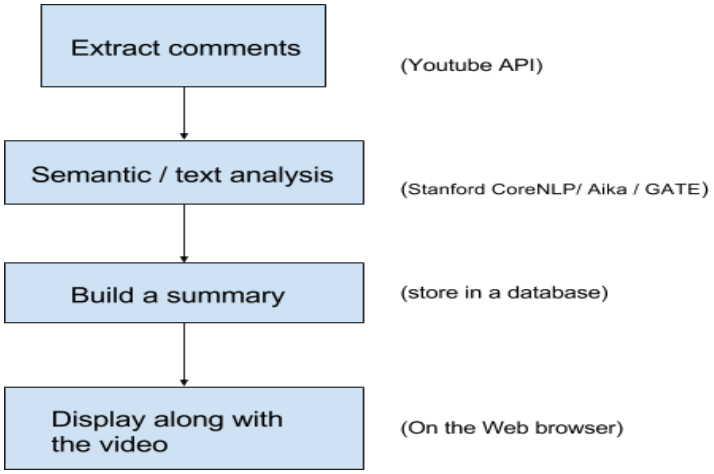
Introduction:

Nowadays we get a lot of comments on any YouTube video. One can get insights such as expectations of the audience or the reviews about the movie through these comments. However, It is very difficult to read all the comments for every video.Therefore, we propose a web based application where we scrap the comments on trending movie trailers on YouTube as a data source. We then perform semantic operations and analysis on this data and give out a summary of what the comments are about. This will be helpful in giving reviews about the movie and the expectations of the audience before the movie releases.

Original Contributions (What is new?):

We have not seen any application which analyzes the comments of a movie trailer on youtube and gives a summary based on those comments. This will help people to save time from reading all the comments. The nearest work done is to compare comments on youtube video.

System Architecture:



Technical Details:

Technology: Css, Php, Javascript
Frontend: Interactive Dynamic Web Pages
Database: json or sql
Api: Youtube Api, text mining / NLP parser like Aika, GATE, etc.

Broader Impact:

On analysing social video platform like youtube, a large amount of feedback in the form of comments is received. The analysis of these comments are potentially an interesting set of data source to mine and to gather substantial information about the movie. This application aims at gathering a generalized opinion about the movie and can be further used in predicting the movie success. This would help gain more insight into user behaviour and predicting how good or bad a movie would do based on user comments on the youtube video.

Team Members And Responsibilities:

Team Members	Responsibilities
Dhanashree Joshi(Team Leader)	Data scraping/Analyzing
Gaurav Agrawal	Front end(Javascript and CSS)
Hiten Nirmal	Web Semantics
Tusharika Mishra	Back end(PHP and database)

Related work:

Opinion mining and work on sentiment analysis and assigning opinion values such as positive negative or neutral on document and tweets has been done before. However, in this application we are analyzing comments and summarizing the generalized opinion rather than just trying to predict the sentiments of the comments. Here, we are also trying to use the comments in a novel context to find out how the movie might be received after release.

Conclusion:

We are trying to develop a web application which will help people get the summary of trending movie trailer by analyzing the comments, thereby concluding whether the community is excited about it or not. Also, rather than reading thousands of video comments; one can just view the analyzed summary of comments data and judge the movie.