

Project Marshal

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Abstract

Project marshal is a project aims to solve one of the most pressing problem of social webpages. Humans are always been emotional creatures and we tend to expresses our self to others in order to get understand. The most under-rated statement is screaming of comments on social media platforms like YouTube, Facebook and twitter etc. For this project we chose YouTube as our platform. Comments of any YouTube video can reach not only thousands but also millions in the number. Project marshal is the best way to understand and summarize those millions of comments to understandable and more meaning full state at which the admin and the uses can understand public opinion in a better prospective. Through this project I hope to make a new and whole-sum view of the content that is created by on the social media platforms. The reach of the project marshal will not be limited to one platform but extends its wings of justice to over platform where there are comments and personal opinion involve.

Keywords: Marshal, Platform, whole-sum.

Article History

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1. Introduction

CSE is a wonderful field where engineers thrive to solve real life problems with the help of technology they learn for 4 years. Observation, determination and knowledge is fuel to life of automation. This project is based on the gap that been growing alone with the development of technologies like internet and social media.

Social media is a platform of various people express where views. Especially platform like YouTube where admins of several channels try to build content for the public to view. By digitalization of this era the number of users of internet is being increased by a vast amount. I personally watch YouTube for more than 8 hours a day. It can be for different uses, but most for the educational purpose. The particular difficulty is to choose the right video to follow because one video for any development can be pretty long on average of 4 hours, thus in order to understand where that video is useful to me takes a lot of time and effort. Not only this, let's see the problem from different perspective of admins. Lot of channel admins are struggling to understand the opinion of their viewers.

We all know that comments are best way to find the opinion of the viewers.

Thus, it raises a major problem. Let's take an example, channel pewdiepie and T-series these channels compete with each other on the subscriptions. Pewdiepie has 100 million subscriptions, let's think 1% of those subscribers' comment on his video that's 1 million and now admin have to read one million comments to understand the public opinion.

Project marshal is the perfect solution for this problem.

Domain

Since we are dealing with text here and a lot of it too that's make marshal fall under NLP. NLP stands for natural language processing. NLP consists of a series of steps that allows to processes and understand the text.

Summarization and Sentimental analysis are part of NLP. NLP is a part of Machine learning and machine Learning is a subset of Artificial intelligence.

Thus, AI plays a significant part of this project and gather the data is another crucial part of the project. Thus, in order to get the YouTube comments we can use the web scraping technique.

Python has been chosen as the development language because of its object oriented nature and availability of open source packages.

2. Literature Review

Title: Better, Nicer, Clearer, Fairer: A Critical Assessment of the Movement for Ethical Artificial Intelligence and Machine Learning

Year: MAY-2019

Author: Daniel Greene College of Information Studies University of Maryland dgreene1@umd.edu Anna Lauren Hoffmann the Information School University of Washington alho@uw.edu Luke Stark Microsoft Research Montreal luke.stark@microsoft.com

Description: This paper uses frame study for recent high-profile standards reports approving ethical design for artificial intelligence and machine learning (AI/ML). Guided by insights from morals in enterprise and the sociology of commercial ethics, we reveal the basis norms and terms of debate that make some discussions about ethical design possible while averting alternative

visions. Vision statements for ethical AI/ML co-opt the language of some critics, folding them into a limited, scientifically deterministic, expert-driven view of what ethical AI/ML means and how it might work.

3. Proposed System

With the help of streamlet which is a package in python that provide the very basis User interface for the project. User is going to type the url of the Video she/he is going to analyze and with the help of selenium web driver which loads the link in an automated testing environment which allow us to collect the comments which are under comment tag in YouTube webpage.

The most difficult part in marshal is interaction of python with browser which is completely build on html, CSS and JS but development of Marshal is on python. Thus, selenium was the best way as it supports several languages like c+, java, python and ruby.

After the completion of the gathering of comments user is provided with options like tokenization, summarization and sentimental analysis.

Is the project marshal legal?

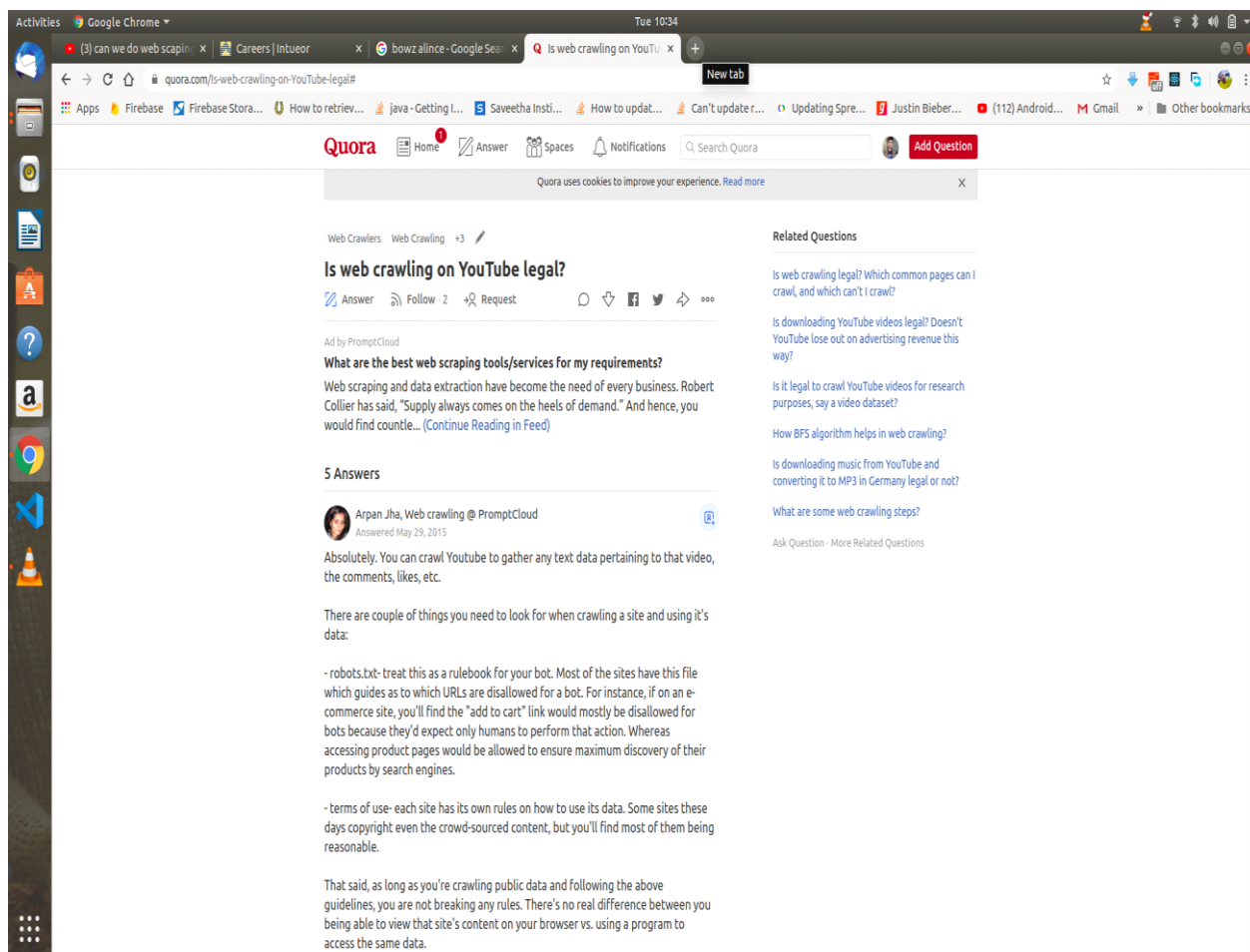


Figure 1: project marshal

4. Future Works

Way forward for this project is attached building a deep learning network so the accuracy and performance increase's that lead a good advantage as a result of the

comments size is dynamic ample comments square measure been denote daily so this sort of situations square measure good or Deep learning.

Due to lack of information and time I even have hand-picked to create a millilitre model and building a

Deep learning Network may be a nice leap of development.

5. Result

Thus, selenium web browser driver is used to web scrap the YouTube page by loading the provided url by the user in an automated testing environment. After collecting the comments for the video data is analyzed to produce tokens and then summarized, the overall sentimental analysis is also conducted and polarity is displayed.

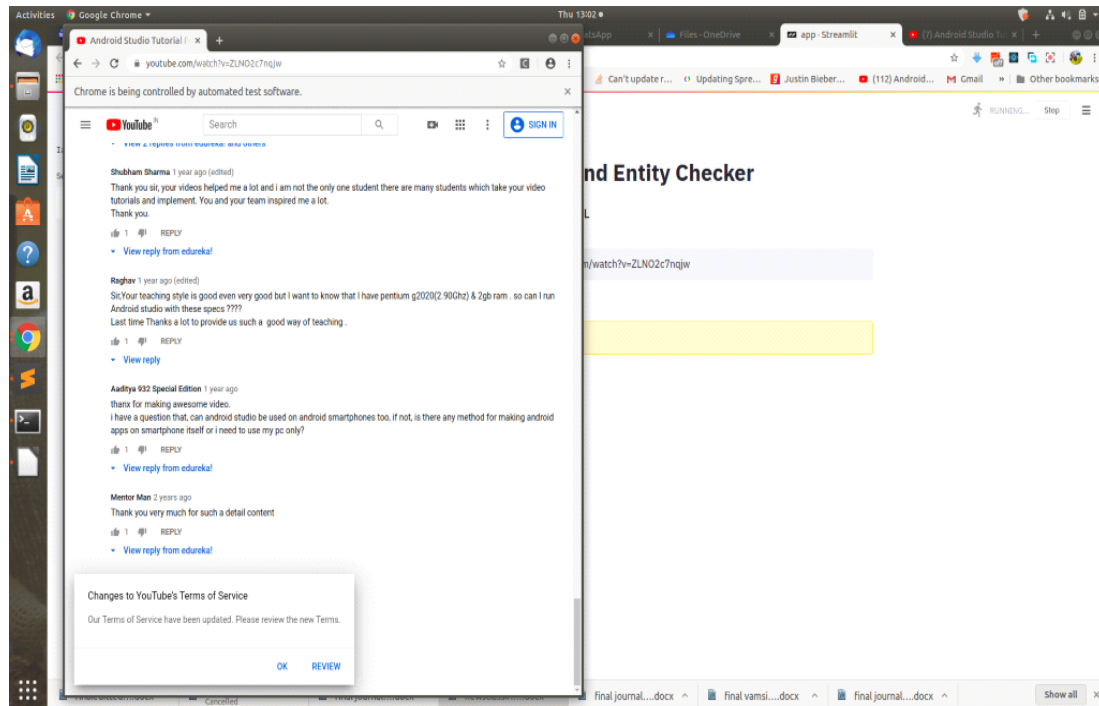


Figure 2: Extraction of comments

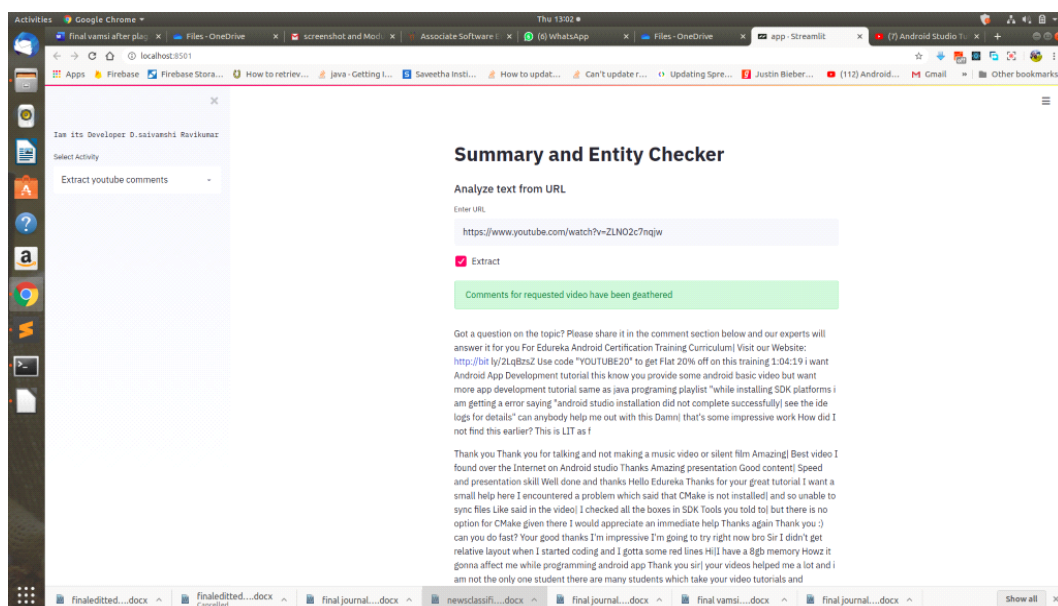


Figure 3: Result of Extraction

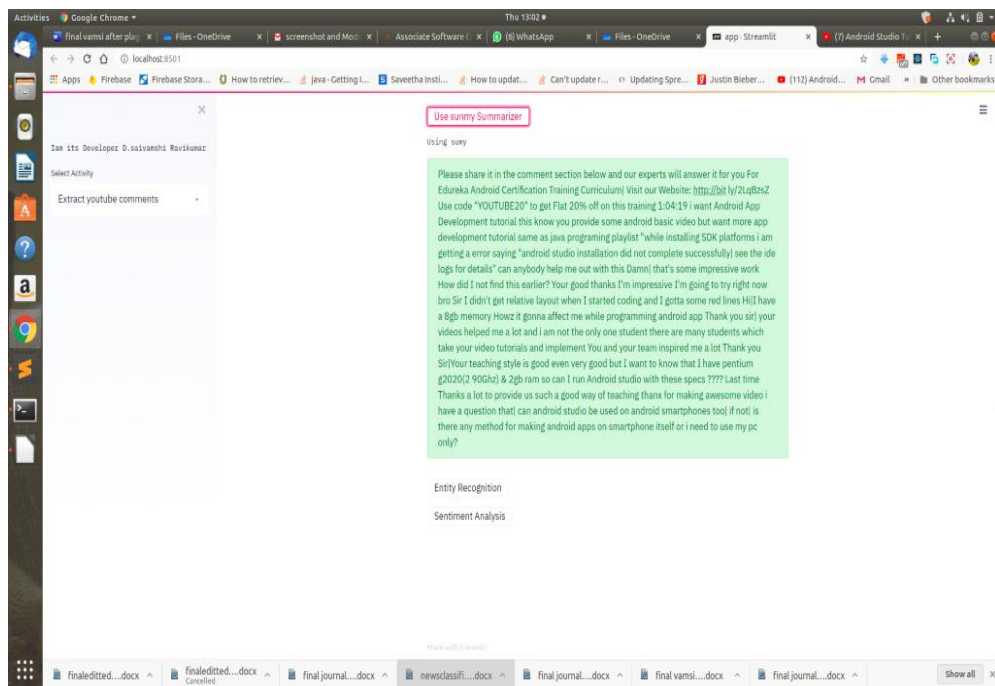


Figure 4: Summarization of comments

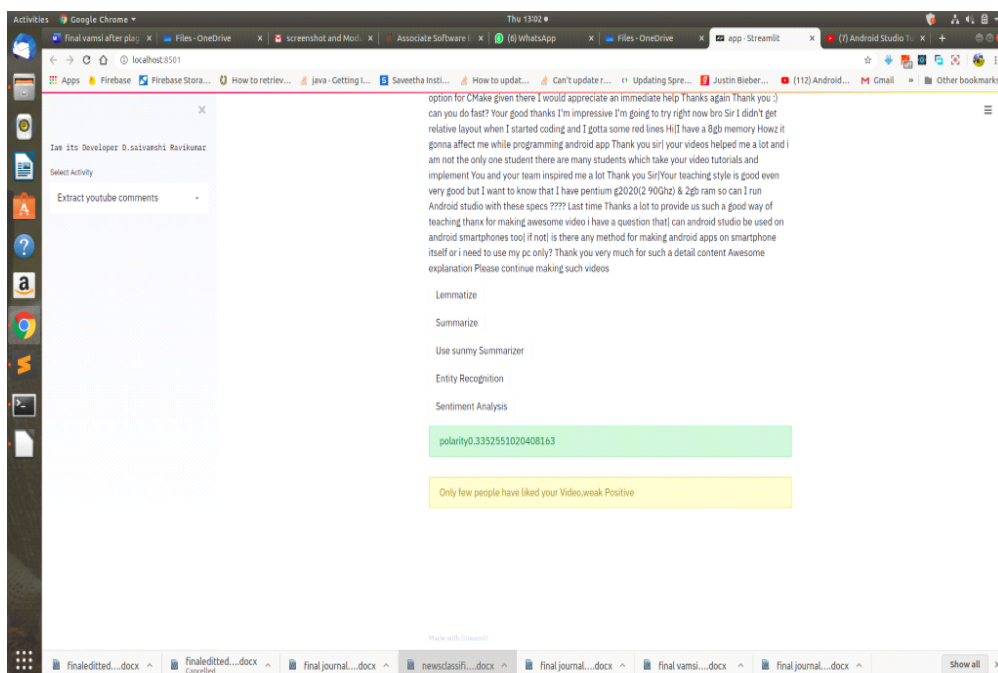


Figure 5: Sentimental analysis of comments

6. Conclusion

I herewith conclude this project will open a replacement manner of understanding immense quantity of information and cut back and even replace the human effort within the field of comments analysis. Comment analysis is being a pricey method however with the assistance of this project each YouTube will benefit of technology and improve their video content, develop their channel.

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