Team Name

Ganador

Project Name

GTube

Idea/Problem Statement-

In today's world, where data goes on increasing enormously and time becomes more and more costlier, who has the time to watch a full length video while the data relevant to one is very less compared to video's length ?

The student who studies one night before the exam to pass does he have the time to watch the whole video lecture?

Or a policeman who is investigating on a case, does he have the time to watch the whole CCTV footage to find the culprit?

Proposed Solution

What if he can directly jump to his point of interest in the video (A big time saver)?

If somehow we can get point of time at which a particular **object is appearing** or a particular word is spoken in the video then we can directly jump to that spot without doing the hard task to watch the full video .

Implementation Details With Tech Stack

1. Searching an object
   - First of all break the video in frames then look for particular object in each frame using Machine Learning .
     Less response time , compromise with accuracy .
     Greater accuracy, high response time .

2. Searching for a spoken word
   Fetching the subtitle file for the video and then searching in subtitle for required keyword .

3. Tech Stack - JS, Python, Selenium, Machine Learning, NLP, Machine Learning, HTML, CSS

WOW Factor!!

Optical Character Recognition is also used which can even search for the written content and words in the video.

Using this web app, one will save a lot of

- Time
- Effort
- Resources
  which are the most costliest things in today's world.

Future Work

Along with searching for an object within the video, also to match any image i.e to see where the image or any frame similar to it appears in the video.

This can be particularly helpful for the policemen who can search for some suspect in the video using his photo

Everyday new researches are being done on ML, so our other work would be to improve the response time for searching the object through more better algorithms.