

**DATA ANALYSIS**  
**On**  
**“YouTube Data”**

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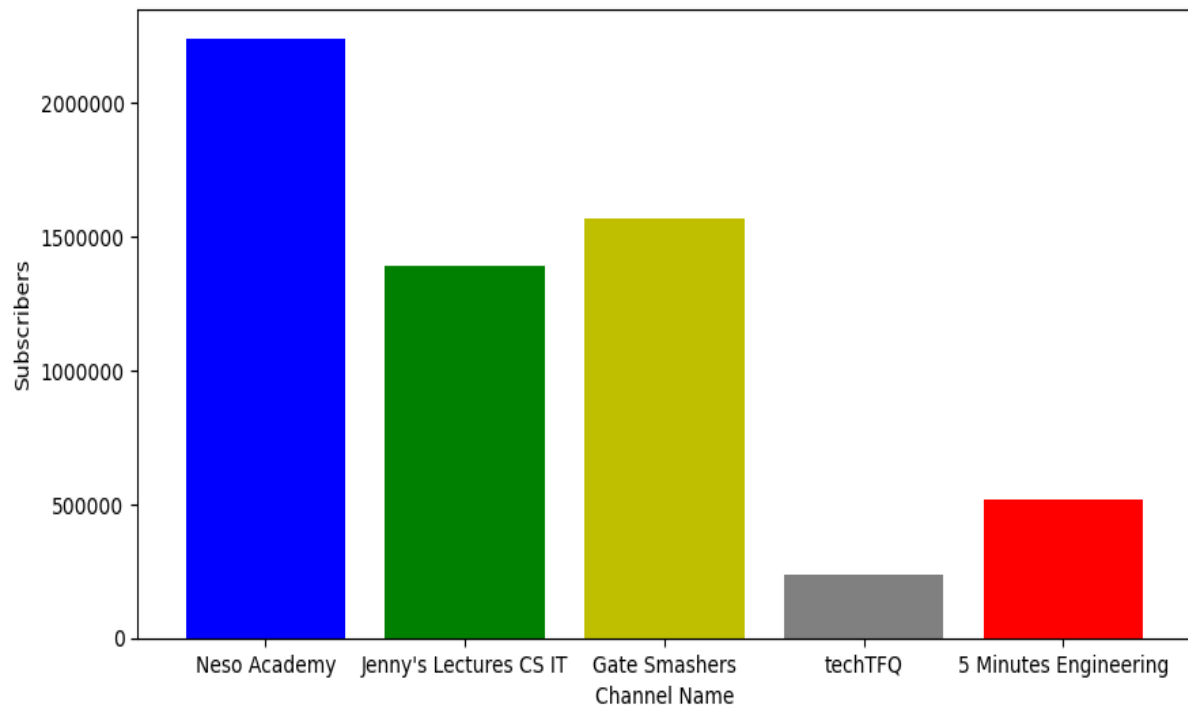
## **OBJECTIVE**

- Scrap some of the educational YouTube channels and retrieve various information, such as:
  - Channel Name
  - Subscribers
  - Total Views
  - Total Videos
  - Playlist Id
  
- Among these channels, find the top YouTube channel and retrieve the following information related to it:
  - Title, published date, views, likes and comments of each video
  - Top 10 videos
  - Month wise video uploading trend

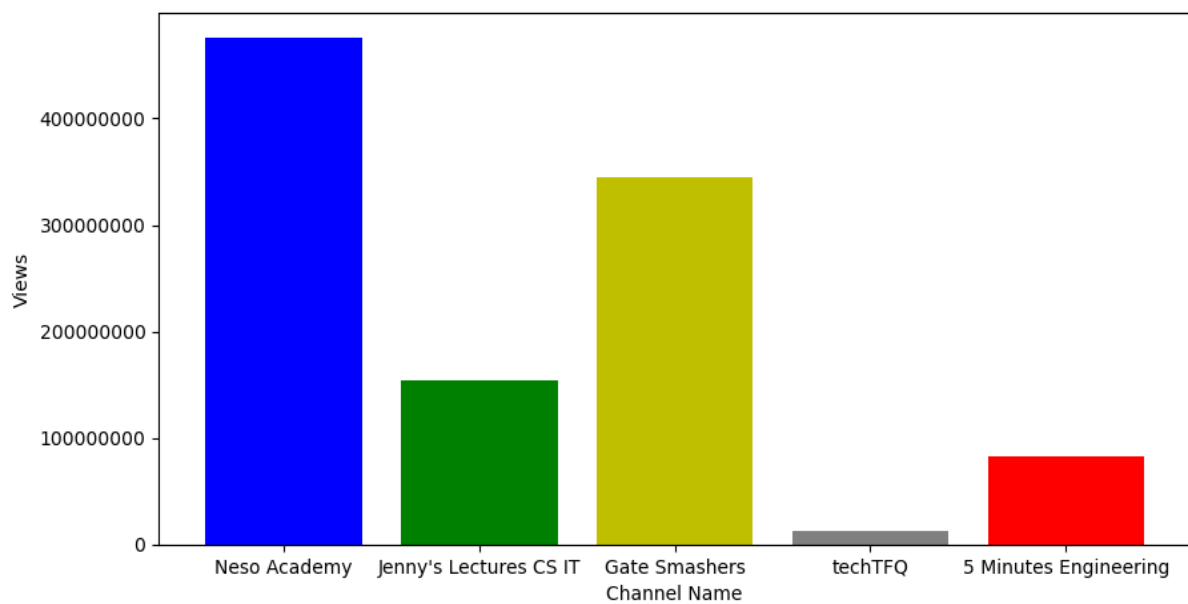
## **PROCEDURE**

- ❖ From the googleapiclient.discovery import the module “build”. This module is used to extract YouTube data via API key.
  
- ❖ Fetch the channel id of the YouTube channels on which the analysis is to be performed.
  
- ❖ Using the playlist id of the top YouTube channel among these channels find the required information.
  
- ❖ Perform the analysis and visualizations using the pandas and matplotlib library.

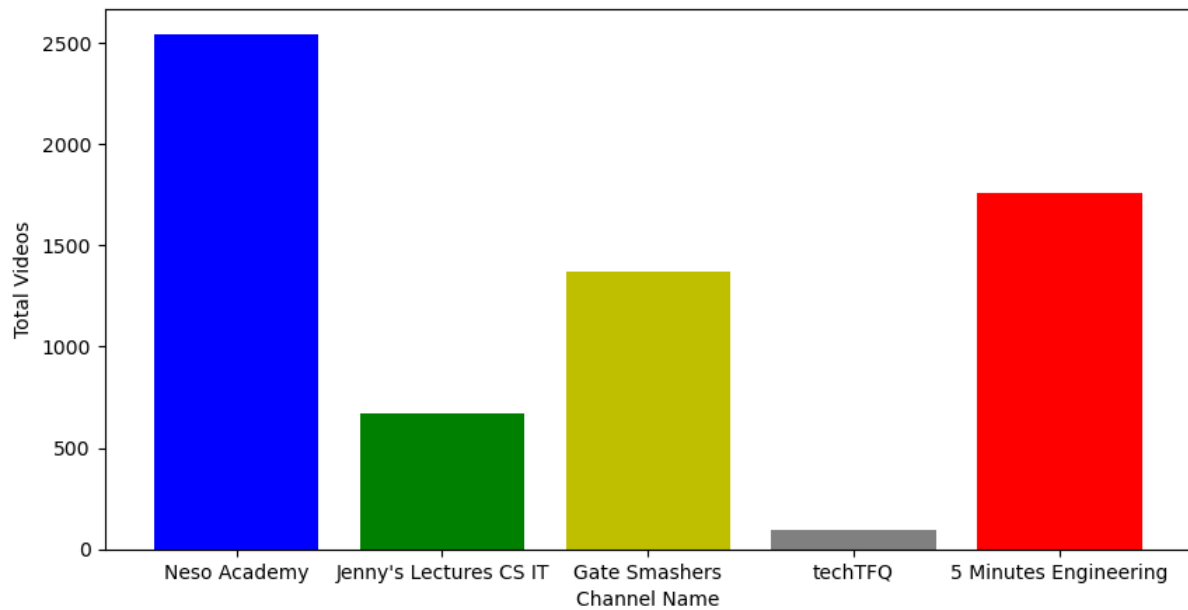
## **ANALYSIS AND FINDINGS**



The above bar graph shows some of the educational YouTube channel names with subscribers. From the above visualization, it can be said that “Neso Academy” is the channel with the most number of subscribers.



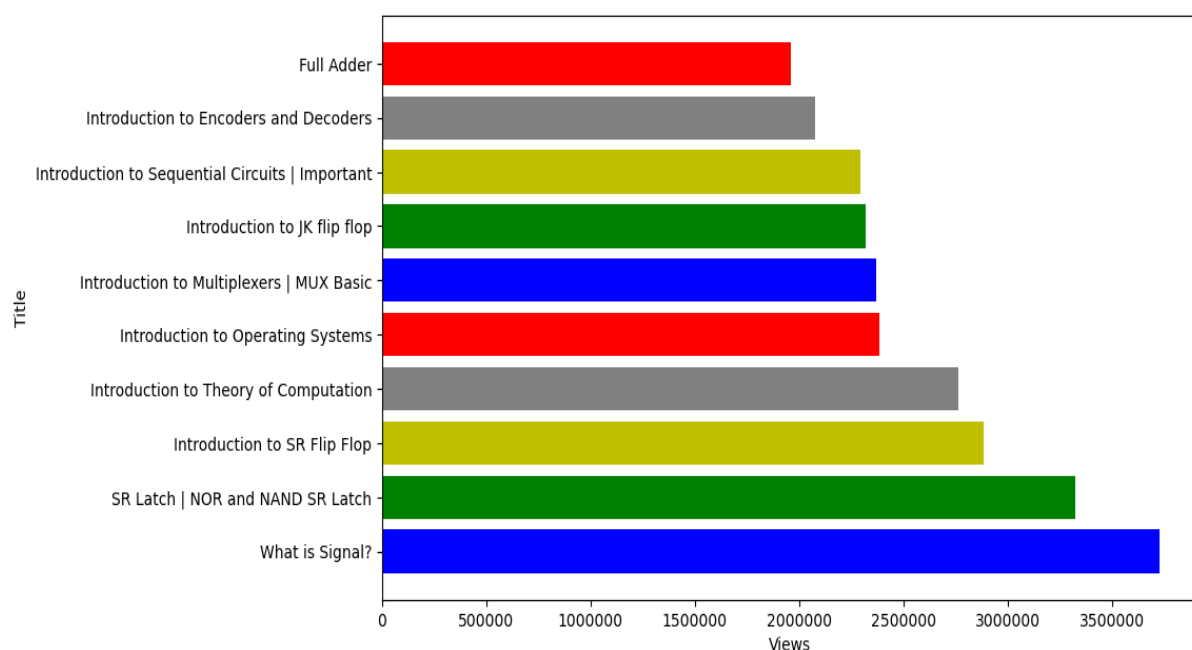
The above visualization depicts that “Neso Academy” is the channel with the most views.



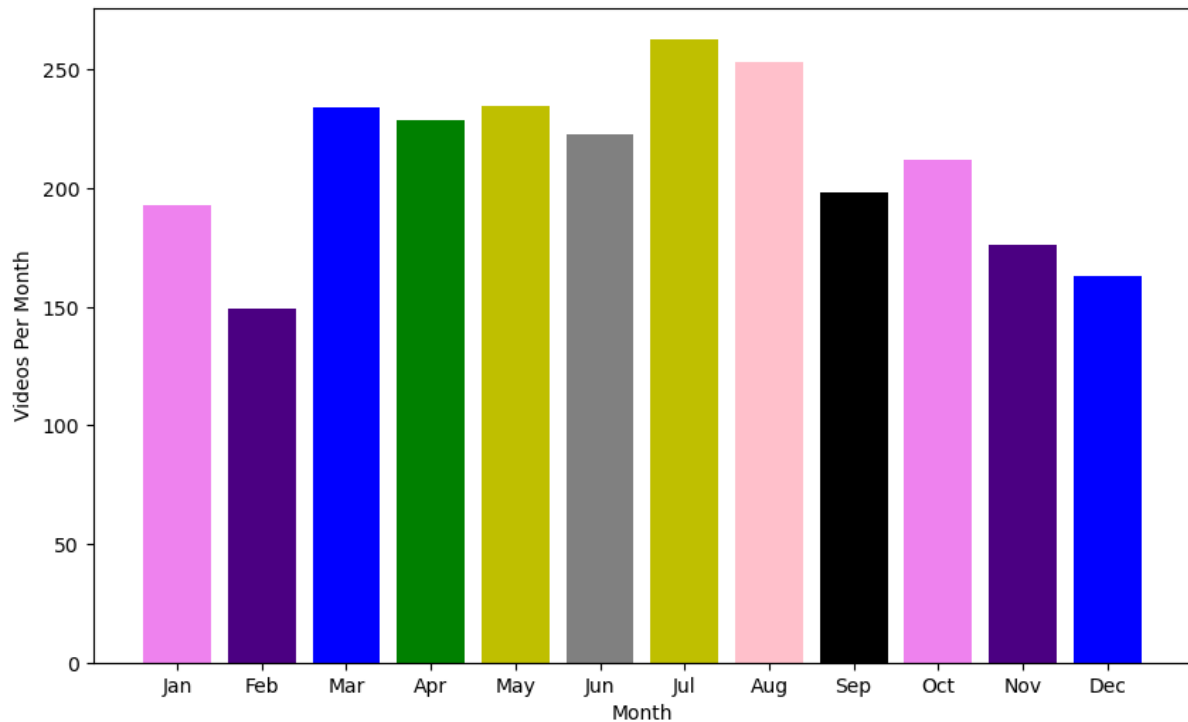
From the above bar graph, it is observed that “Neso Academy” is the channel with the most number of videos.

Analyzing the above three visualizations, it can be concluded that “Neso Academy” is the top YouTube channel among these channels. Hence, further analysis is to be performed on this channel.

The above visualizations also reflect that “Jenny’s Lecture CS IT” is one of the most efficient channels among these.



The above graph shows the top 10 videos of "Neso Academy". It reflects that the most successful video on this channel is "What is Signal?".



The above visualization shows the month-wise video uploading trend of the "Neso Academy". It clearly reflects that "July" is the month when the most number of videos are uploaded, while "February" is the month when the least number of videos are uploaded.

## **CONCLUSION**

Using the various Python modules and methods, some of the educational YouTube channels are scraped, and various information regarding these channels is retrieved.

Furthermore, among these channels, the top YouTube channel is extracted, and various analyses are performed on it.

Finally, the outcome of the project is represented in the form of a "csv".