

API Project 2

Youtube Channel Information using Python and Youtube API

The YouTube API allows developers to interact with YouTube's features, such as searching for videos, uploading videos, retrieving video information, managing playlists, and more. By using the YouTube API with Python, you can automate tasks, fetch data, and perform various operations on YouTube's platform.

Here we used famous Youtuber Ali Abdaal's youtube channel <https://www.youtube.com/@aliabdaal>

Here's an overview of the key concepts and steps involved when working with the YouTube API in Python:

Obtain API Credentials:

Visit the Google Developers Console and create a new project. Enable the YouTube Data API for your project. Create API credentials (API key, OAuth client ID, or service account credentials) to authenticate your requests to the API.

Install the Required Libraries:

You'll need to install the google-api-python-client library, which provides the Python bindings for the YouTube API. Install it using pip install google-api-python-client.

Set Up Authentication:

Depending on the type of API credentials you obtained, you'll need to authenticate your requests.

Get channel information:

1. Channel IDs
2. Channel Statistics
3. Video IDs
4. Video Details
5. Playlist IDs
6. Video Details

Convert count columns to numeric

Publish day in the week

Convert Duration to seconds

Exploratory Data Analysis.

It refers to the process of analyzing and summarizing data sets to gain insights and understanding of the data. EDA involves various statistical and visualization techniques to explore the data, identify patterns,

Various EDA done in the project:-

1. Best Performing Videos
2. Worst Performing Videos
3. View Distribution per Videos
4. Video Duration
5. Upload Schedule

Done.