Project Description
Process
Questions

Extract *Load*

Enter YouTube Channel_ID below :

Hint : Goto channel's home page > Right click > View page source > Find channel_id

Extract Data

Upload to MongoDB

Deploy

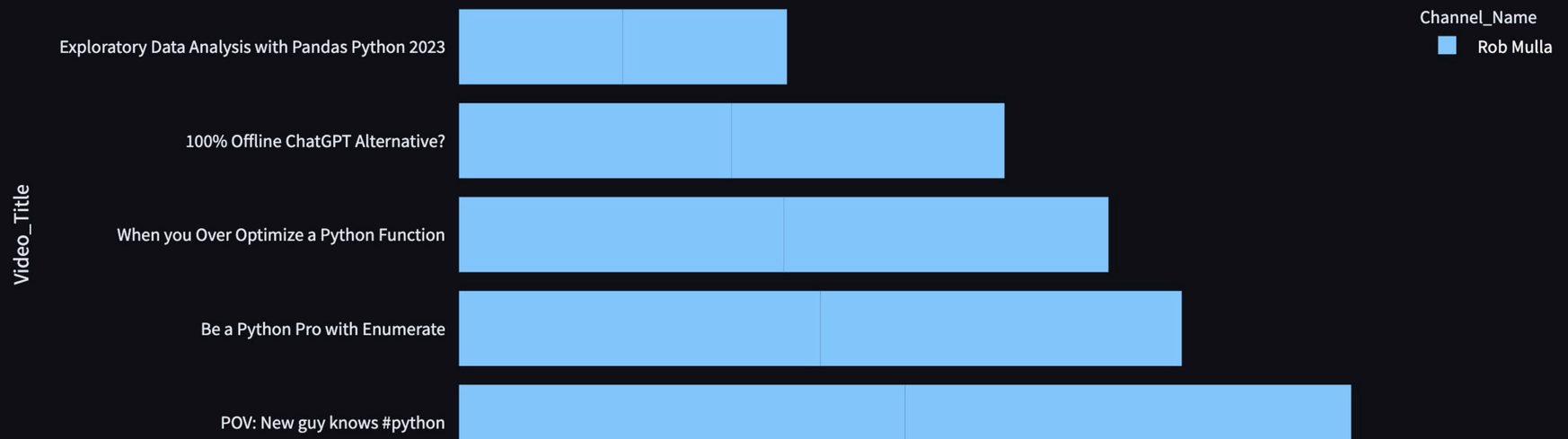
Project Description

Process

Questions

	Channel_Name	Video_Title	Views
0	Rob Mulla	POV: New guy knows #python	954,573
1	Rob Mulla	POV: New guy knows #python	954,573
2	Rob Mulla	Be a Python Pro with Enumerate	773,297
3	Rob Mulla	Be a Python Pro with Enumerate	773,297
4	Rob Mulla	When you Over Optimize a Python Function	694,861
5	Rob Mulla	When you Over Optimize a Python Function	694,861
6	Rob Mulla	100% Offline ChatGPT Alternative?	583,640
7	Rob Mulla	100% Offline ChatGPT Alternative?	583,640
8	Rob Mulla	Exploratory Data Analysis with Pandas Python 2023	350,854
9	Rob Mulla	Exploratory Data Analysis with Pandas Python 2023	350,854

Top 10 most viewed videos :



Project Description
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Tech Used : Python,MongoDB, Youtube Data API, MySql, Streamlit

Description : Retrieving the Youtube channels data from the Google API, storing it in a MongoDB as data lake, migrating and transforming data into a SQL database,then querying the data and displaying it in the Streamlit app.

```python
import pandas as pd
import plotly.express as px
import streamlit as st
from streamlit_option_menu import option_menu
import mysql.connector as sql
import pymongo
from googleapiclient.discovery import build
from PIL import Image
from pymongo.mongo_client import MongoClient
from pymongo.server_api import ServerApi

# Bridging a connection with MongoDB Atlas and Creating a new database(youtube_data)

# Create a new client and connect to the server
client = MongoClient("mongodb+srv://2day4uindia:mrMInKpLaFbULK5Z@cluster0.kifo6xm.mongodb.net/?retryWrites=true&w=maj
db = client['youtube_database']

```



```
(base) quantumhex@NavaneethansAir QuantumVault % streamlit run /Users/quantumhex/QuantumVault/Project/AssemblyAI/py_script.py

  You can now view your Streamlit app in your browser.

  Local URL: http://localhost:8501
  Network URL: http://192.168.1.4:8501
```

Overview
DEPLOYMENT
Database
Data Lake
SERVICES
Device Sync
Triggers
Data API
Data Federation
Atlas Search
Stream Processing
SECURITY
Quickstart
Backup
Database Access
Network Access
Advanced
Goto

Cluster0

VERSION 6.0.13 | REGION AWS Mumbai (ap-south-1)

Overview | Real Time | Metrics | Collections | Atlas Search | Profiler | Performance Advisor | Online Archive | Cmd Line Tools

DATABASES: 10 COLLECTIONS: 26

VISUALIZE YOUR DATA | REFRESH

+ Create Database

Search Namespaces

- sample_airbnb
- sample_analytics
- sample_geospatial
- sample_guides
- sample_mflix
- sample_restaurants
- sample_supplies
- sample_training
- sample_weatherdata
- youtube_database
  - channel_details
  - comments_details
  - video_details

youtube_database.video_details

STORAGE SIZE: 280KB | LOGICAL DATA SIZE: 444.26KB | TOTAL DOCUMENTS: 290 | INDEXES TOTAL SIZE: 40KB

Find | Indexes | Schema Anti-Patterns 0 | Aggregation | Search Indexes

INSERT DOCUMENT

Filter | Type a query: { field: 'value' } | Reset | Apply | Options

QUERY RESULTS: 1-20 OF MANY


```
_id: ObjectId('65bf778e5690730c3e8f331c')
Channel_name: "Rob Mulla"
Channel_id: "UCxladMszXan-jfgzyeIMyvw"
Video_id: "3niTFmVIjqQ"
Title: "Groundhog Day - Data Science Project Live!"
Tags: Array (12)
Thumbnail: "https://i.ytimg.com/vi/3niTFmVIjqQ/default.jpg"
Description: "Come on an adventure with us as we use data science and python to pull…"
Published_date: "2024-02-02T04:41:48Z"
Duration: "PT2H7M33S"
Views: "3515"
Likes: "127"
Comments: "10"
Favorite_count: "0"
Definition: "hd"
Caption_status: "false"
```

```
_id: ObjectId('65bf778e5690730c3e8f331d')
```