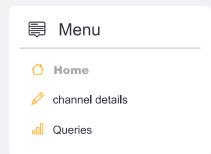
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### Home

## **Youtube Data Harvesting & Warehousing using SQL**

**Domain: Social Media** 

# **Project Overview**

This project focuses on harvesting data from a YouTube channel using the YouTube API and organizing the collected data into a structured format using pandas. The cleaned data is temporarily stored in dataframes before being transferred to a SQL-based data warehouse. The project involves collecting channel and video data and storing it in SQL tables. SQL queries are then applied to retrieve meaningful insights from the warehouse and the results are displayed through a Streamlit-based web application.

#### Skills & Technologies Utilized:

- Python: Used for data processing and API integration
- YouTube API: For extracting channel and video data
- Pandas: Data manipulation and transformation
- SQL: Data warehousing and executing queries
- Streamlit: For building an interactive web application

## **Project Benefits:**

- Automates the process of extracting and storing YouTube data.
- Provides real-time insights from the data warehouse using SQL queries.
- Easy-to-use web interface for non-technical users to retrieve insights.

## **Future Scope:**

- Integrating more social media platforms for broader analysis.
- Using machine learning models for predicting video popularity.
- Adding more interactive visualizations for data insights.

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