1) The purpose of the project

This project aims to analyze a decade worth of Youtube data on USA and GB. Our team will look into similarities, and differences, on two countries' viewing preferences that may provide valuable insights to those who plans to expand their contents on either country.

2) A background on the data used

The dataset was obtained from kaggle. **https://www.kaggle.com/datasnaek/youtube-new**

It contains the following fields that will be utilized for this project:

* Trending date in date format
* Channel as string
* Category id as integer
* Likes, dislikes and comment counts as integers

3) Hypotheses and expectations of the final visualizations and conclusions.

We dove

4) A technical description of the application with a paragraph dedicated to each viz. This should also include libraries used, etc.

Homepage…

A picture containing electronics

Description automatically generated

A screenshot of a cell phone

Description automatically generated

View per graph

A screenshot of a video game

Description automatically generated

The application is

The front end of this application uses HTML and CSS. A starter template was utilized.. Customization on the template was done to render a professional looking frontend

while  reflecting the team's vision and goal.

At the backend of this application are Python and Javascript. Python was used on the Extraction, Transfer and Loading process of the data to the database. It was also used to create the flask app that run this application. Javascript was utilized on rendering the visualization with the aid of the Chart JS library.

The dataset used was obtained from Kaggle.

It contains data for 10 countries with 41,000 entries each. The group decided to focus analysis on two countries - US and GB.

PostgreSQL was used on this project to store all the data obtained.

PostgreSQL is a powerful, open source object-relational database system that has earned it a strong reputation for reliability, feature robustness, and performance.

Line graph…

A screenshot of a cell phone

Description automatically generated

Bar Graph…

A screenshot of a cell phone

Description automatically generated

Doughnut graph..

A picture containing vector graphics

Description automatically generated

Bubble Graph.

A screenshot of a cell phone

Description automatically generated

The bubble graph was created using chartJS library. The important parameters needed to render the bubbles were:

the x values, which was set to the number of likes per category

the y values, which was set to the number of dislikes per category

the r values, which was set to the ratio of likes/dislikes per category

the labels, which was set to the categories.

5) Final conclusions and whether or not they met your hypotheses.

6) Future Work