Project #3: Visualizing Data

**Team** MICA

**Members:**

Mike Jackson

Chris Connor

Inderpreet Grang

Abby Kannappan

Website Link:

Data Source: Kaagle

* Number of records: Over 1,200,000 records of data from YouTube tending data from 11 countries worldwide. Canada, Japan, India, United Kingdom, United States, South Korea, Germany, Brazil, France, Mexico and Russia.
* All records loaded into a Postgres SQL server database on AWS Cloud
* Data quality queries, cleanup and aggregation made through PG Admin and Pandas Jupyter notebook.
* Mongo DB utilized for web scraping
* This project has multiple routes powered by a Flask API and includes HTML, CSS, JavaScript and SQL Server.
* Web scraping utilized to find the top trending videos
* Leaflet use to create a world map displaying how many videos per country
* Use of drop down to select video category on the first page, zoom features on the map and interactivity on the plotly express charts
* Use of an Azure Website
* Use of JS charts as a JavaScript library
* Data visualizations for the following:

1. Days Trending for top channels with a drop down for Category.
2. Top trending days by Category
3. Views per country ( in Charts JS and Plotly Express)
4. Likes Ratio per country ( in Charts JS and Plotly Express)
5. Comment ratio by country ( in Charts JS and Plotly Express)
6. Engagement Ratio by country ( in Charts JS and Plotly Express)
7. Top channels by trending days
8. Top categories by trending days