

## **Capstone Project 2 Proposal**

### ***Youtube Recommender System***

#### **Problem:**

Building a recommender system that not only recommends a video similar to the the videos a user has watched but also a different category they might be interested in.

#### **Client:**

Youtube. As someone who admittedly falls into the “Youtube rabbit hole” quite often, I see how effective these recommender systems can be. Although, these recommendations are usually of videos that belong in the same category. My goal in this project is to build a recommender system that can also show a user what other categories they might be interested in.

#### **Data:**

Data from Kaggle. The first set of datasets contain the comments made by the users and the categories that the videos belong in. The second set contains the videos’ statistics such as the number of comments, likes, dislikes, and etc.

<https://www.kaggle.com/datasnaek/youtube>  
<https://www.kaggle.com/datasnaek/youtube-new>

#### **Method:**

I want to try a hybrid approach of content-based and collaborative filtering. Although, it doesn’t seem like we have much information about the users, so there might be more weight in content-based filtering.

#### **Deliverables:**

Code, report and a slide deck on github.