

## **Project Proposal**

**Project Title:** Netflix Binge

**Team Members:** Bao Huynh, Chadwick Nguyen, Mary Colasanto, and Terril Vallikalam

**Project Description/Outline:** Analyze a 2019 dataset of Netflix movie and tv show titles

### **Research Questions to Answer:**

1. Distribution of Movies and TV Shows Over Time
  - a. Number of movies vs. tv shows
  - b. Bin movies/show by year
  - c. Length of movies/shows vs. release date
  - d. Ratings/genres of films made over time
2. Country Collaboration
  - a. How many movies and tv shows have multiple countries involved?
  - b. Which country produced the most movies and tv shows?
  - c. Comparison of US and rest of the world movie and tv show production
  - d. Country of origin vs. when it was added to Netflix
  - e. See which genre is popular in each country

### **Datasets to be Used:**

- [https://www.kaggle.com/shivamb/netflix-shows?select=netflix\\_titles.csv](https://www.kaggle.com/shivamb/netflix-shows?select=netflix_titles.csv)

### **Rough Breakdown of Tasks:**

- Everyone: Clean data!!!!!!
- Bao: Country Collaboration
- Chadwick: Distribution of Movies and TV Shows Over Time

- Mary: Distribution of Movies and TV Shows Over Time
- Terril: Country Collaboration

**Schedule:**

Thursday 01/28: Clean Data.

Saturday 01/30: Everyone works on their parts.

Tuesday 02/02: Analysis should be finished.

Thursday 02/04: Have Powerpoint finished.

Saturday 02/06: Project 1 Due and Presentation

## # Technical Requirements

The technical requirements for Project 1 are as follows.

- \* [ ] Use Pandas to clean and format your data set(s)
- \* [ ] Create a Jupyter Notebook describing the **\*\*data exploration and cleanup\*\*** process
- \* [ ] Create a Jupyter Notebook illustrating the **\*\*final data analysis\*\***
- \* [ ] Use Matplotlib to create a total of 6-8 visualizations of your data (ideally, at least 2 per

"question" you ask of your data)

\* [ ] Save PNG images of your visualizations to distribute to the class and instructional team, and for inclusion in your presentation

\* [ ] Optionally, use at least one API, if you can find an API with data pertinent to your primary research questions

\* [ ] Create a write-up summarizing your major findings. This should include a heading for each "question" you asked of your data, and under each heading, a short description of what you found and any relevant plots.

## # Presentation Guidelines

You are free to structure your presentations to your liking, but students tend to have success with the following format.

\* Title Slide

\* Include the name of the Project and Group Members

\* Motivation & Summary Slide

\* Define the core message or hypothesis of your project.

\* Describe the questions you asked, and why you asked them

- \* Describe whether you were able to answer these questions to your satisfaction, and briefly summarize your findings

- \* Questions & Data

- \* Elaborate on the questions you asked, describing what kinds of data you needed to answer them, and where you found it

- \* Data Cleanup & Exploration

- \* Describe the exploration and cleanup process

- \* Discuss insights you had while exploring the data that you didn't anticipate

- \* Discuss any problems that arose after exploring the data, and how you resolved them

- \* Present and discuss interesting figures developed during exploration, ideally with the help of

## Jupyter Notebook

- \* Data Analysis

- \* Discuss the steps you took to analyze the data and answer each question you asked in your proposal

- \* Present and discuss interesting figures developed during analysis, ideally with the help of

## Jupyter Notebook

- \* Discussion

- \* Discuss your findings. Did you find what you expected to find? If not, why not? What inferences or general conclusions can you draw from your analysis?

- \* Post Mortem

- \* Discuss any difficulties that arose, and how you dealt with them

- \* Discuss any additional questions that came up, but which you didn't have time to answer:

What would you research next, if you had two more weeks?

- \* Questions

- \* Open-floor Q&A with the audience

