**STREAMING PLATFORM RECOMMENDATION SYSTEM FOR TV-SHOWS**

**BABATUNDE OBISANYA**

Faculty of Engineering, Environment and Computing

7153CEM Big Data Analytics and Data

Visualisation

# DATASET : Netflix Disney+ Prime Video Hulu Shows Collection ( <https://www.kaggle.com/datasets/whenamancodes/netflix-prime-video-disney-hulu> )

Project Description:

The project’s aim is to develop a recommendation system that will suggest the most suitable streaming platforms for a user to watch specific TV shows. The system will be built with machine learning algorithms, utilizing a dataset which contains information about TV shows and their attributes (e.g., year, age rating, Rotten Tomatoes rating, IMDb rating), with their availability on popular streaming platforms like Netflix, Disney+, Prime Video, and Hulu.

Below are the steps:

Data Collection: Obtain a comprehensive dataset that includes TV-shows information and their availability on different streaming platforms.

Data Preprocessing: Clean the dataset, handle any missing values and encode categorical features to prepare the data for machine learning.

Feature Engineering: Extract the relevant features from the dataset which will contribute to the prediction of a TV-show's availability on different streaming platforms.

Machine-Learning Models: Employ classification algorithms (e.g., Random-Forest, Logistic-Regression) to predict whether a TV-show is present on each streaming platform.

Model Training: Split the dataset into training set and testing set and train the classification models for each platform using the training data from the split.

Model Evaluation: Evaluate the performance of the classification model using confusion matrices and accuracy metrics.

The outcome of this project will be an efficient and practical recommendation system that helps the users find the best streaming platform(s) for their preferred TV-shows, enhancing their entertainment experience and reducing the time that is spent searching for content across multiple platforms.