

The slide features a white background with several decorative elements. In the top left, there are three hexagons: a large light blue one, a small dark green one, and a medium green one. In the center, there is a large green hexagon. At the bottom center, there is a small green hexagon. On the right side, there are abstract, overlapping blue geometric shapes of various shades. The main title is centered in a bold, black, serif font.

Netflix Content Trends Analysis for Strategic Recommendations

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PROBLEM STATEMENT

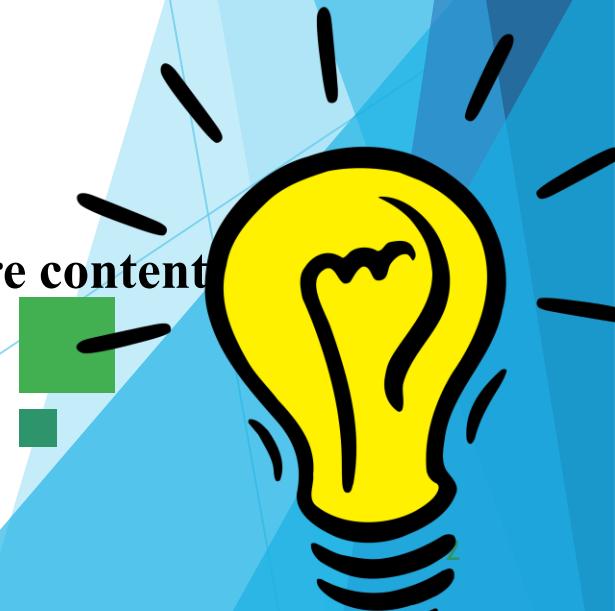
Netflix, one of the world's leading streaming platforms, continuously expands its global content library to cater to diverse audiences. However, with rising competition from platforms like **Amazon Prime Video**, **Disney+**, and regional OTT providers, it faces a key challenge:

How can Netflix analyze its existing content catalog to identify strengths, weaknesses, and opportunities for strategic content planning and global expansion?

This project focuses on performing a **comprehensive content trends analysis** of Netflix's dataset (7,789 records, 11 features) to understand:

- The evolution of **Movies vs. TV Shows** over the years
- Shifts in **popular genres and emerging categories**
- **Country-wise content contributions** and diversity patterns

The goal is to derive **data-driven strategic insights** that help Netflix optimize its **future content acquisition, production, and regional expansion** strategies.



Project Description

This project analyzes the **Netflix dataset** containing details of Movies and TV Shows to understand how Netflix's content strategy has evolved over time.

It focuses on exploring **content trends**, **genre popularity**, and **country-wise contributions** using **data cleaning**, **feature engineering**, and **visual analytics**.

The insights help identify **viewer preferences** and provide **strategic recommendations** for Netflix to improve its future **content acquisition and production strategies**.

Objectives

- Analyze the distribution of **Movies vs. TV Shows** on Netflix.
- Identify **top and emerging genres** over the years.
- Examine **country-wise content contributions** and diversity.
- Apply **data visualization and machine learning** for insights.
- Provide **strategic recommendations** for future content planning.

Expected Outcomes

- Clear understanding of **Netflix's content evolution**.
- Identification of **popular genres and regional trends**.
- Insights into **global content diversity** and market expansion.
- Predictive model to classify **Movies or TV Shows**.
- Data-driven **recommendations** for Netflix's content strategy.

WHO ARE THE END USERS?



- **Netflix Content & Strategy Tem** – to plan future content production and acquisitions.
- **Data Analysts & Business Intelligence Teams** – to explore content trends and viewer preferences.
- **Marketing & Regional Expansion Teams** – to identify target markets and audience segments.
- **Researchers & Students** – to study OTT content distribution patterns and global media trends.



Technology Used

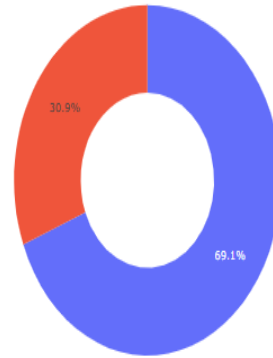
Tools and Technologies Used

- **Python** – for data analysis and machine learning
- **Pandas & NumPy** – for data cleaning and preprocessing
- **Matplotlib, Seaborn & Plotly** – for data visualization and trend analysis
- **Scikit-learn** – for building predictive ML models
- **Google Colab / Jupyter Notebook** – for implementation and experimentation

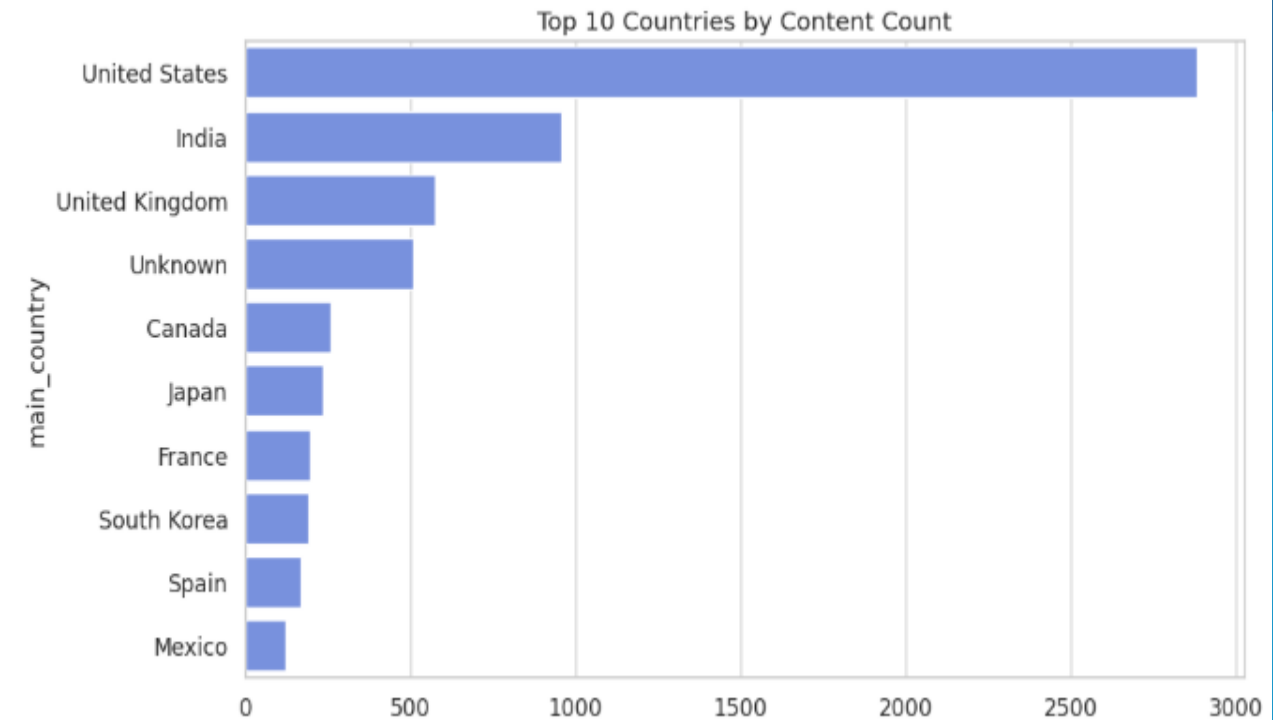
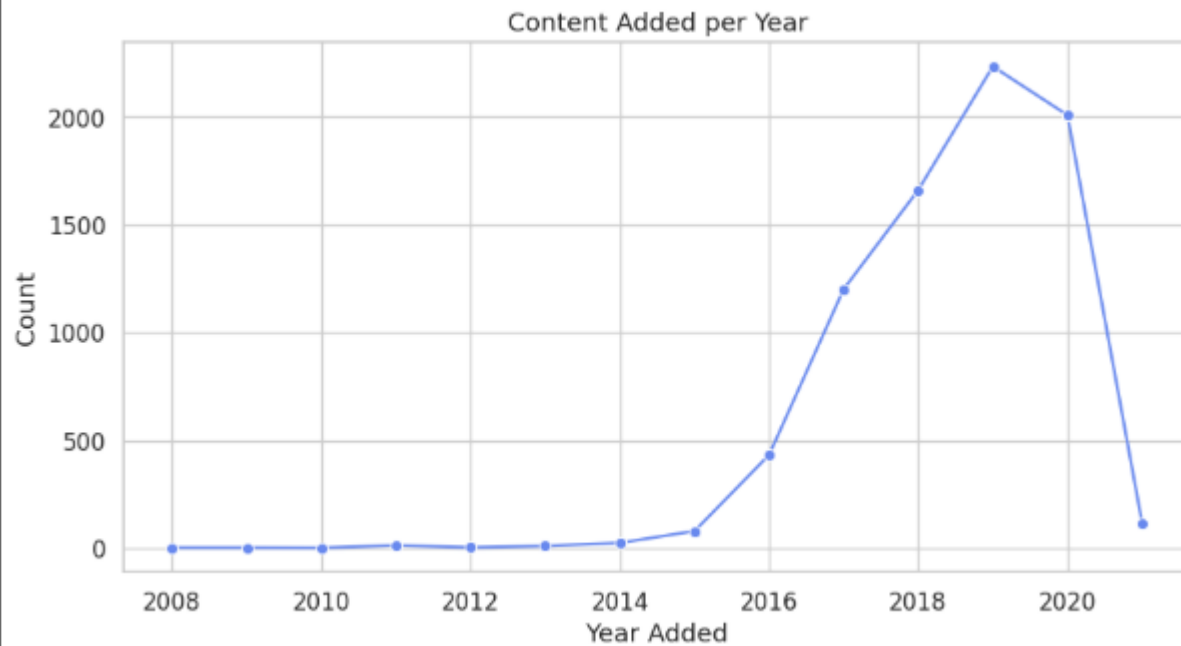


RESULTS 1, 2 & 3

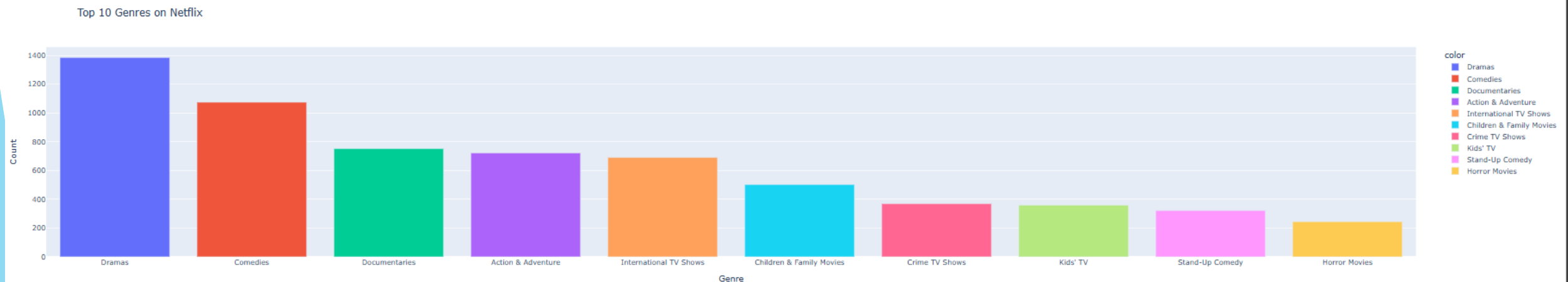
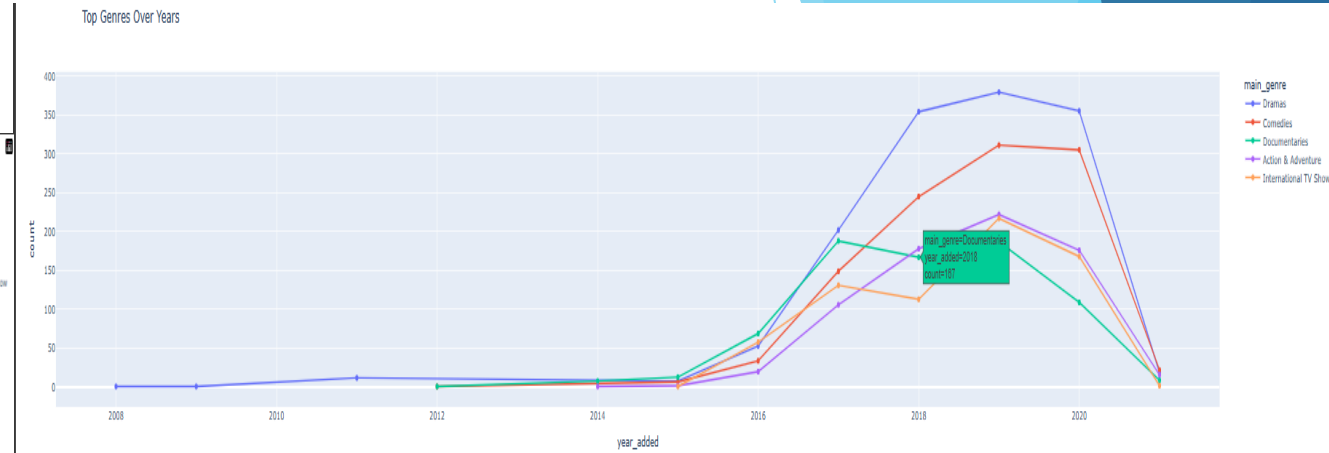
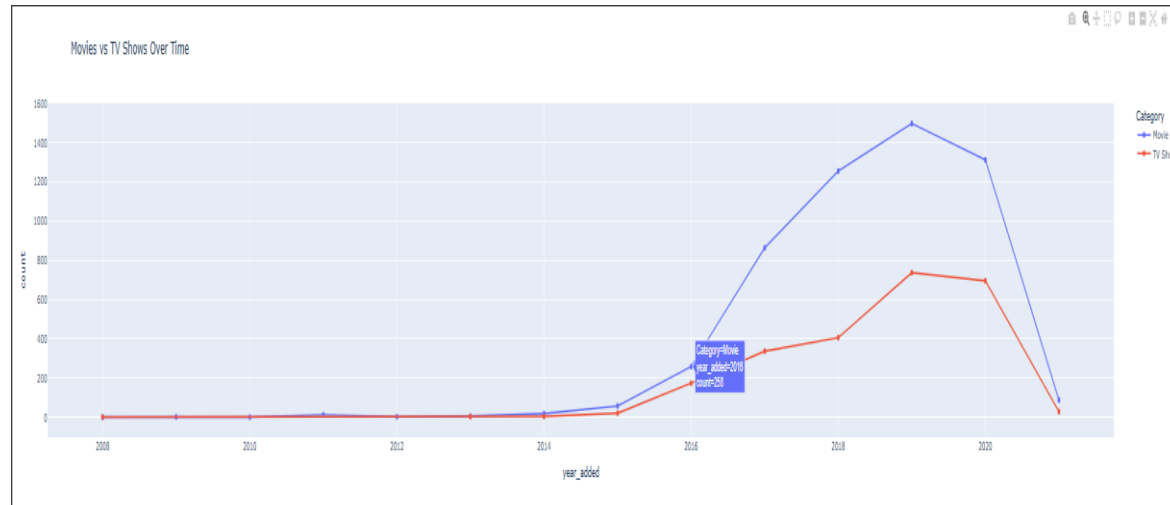
Distribution: Movies vs TV Shows



Movie
TV Show



RESULTS 4, 5 & 6



s vs TV Shows

TV Show	s
1	18
2	52
3	1
4	0
5	1
6	8
7	27
8	0
9	0
10	84

TV Show

[illegible]

Confusion matrix for the 'type' variable:

	0	1
0	1098	4
1	1	455

The color bar indicates the count scale, ranging from 0 (light blue) to 1000 (dark blue).



GitHub repository



- GitHub Link:

https://github.com/SahanaPriyaG/VOIS_AICTE_Oct2025_MajorProject_SahanaPriyaG.git



Getting started with Basics of Python Certificate



Data Visualization Certificate





Thank you