

# Netflix Data Analysis using Python

## Objective:

The objective of this project is to analyze Netflix’s content library using Python. Through data visualization and exploration, the project uncovers trends related to content types, country-wise production, release years, ratings, and genres.

## Libraries Used:

- pandas – for data manipulation and analysis
- matplotlib – for creating visualizations
- seaborn – for aesthetically enhanced plots

## Steps of Analysis:

1. Data Cleaning: Removed null values and formatted date columns.
2. Data Exploration: Analyzed dataset structure and key features.
3. Visualization: Created various charts to extract insights.
4. Insight Extraction: Interpreted visual findings to understand patterns.

## Insights from Analysis:

Chart	Key Insight
Movies vs TV Shows	Netflix has significantly more movies than TV shows, indicating a focus on film-based content.
Top Content Producing Countries	The United States leads in Netflix content production, followed by India and the UK.
Release Trend Over the Years	There is a rapid increase in Netflix content from 2015 onward, showing its global expansion.
Content Ratings Distribution	Most content is rated TV-MA and TV-14, suggesting Netflix targets mature and teen audiences.
Top Genres	‘International Movies’, ‘Dramas’, and ‘Comedies’ are the most common genres on the platform.

## Conclusion:

The Netflix data analysis reveals that Netflix’s content strategy is centered around movies, with strong contributions from the US and India. Over recent years, Netflix’s production has accelerated, focusing on mature audiences and international genres. This project demonstrates practical use of Python for data analysis and visualization.

## Resume Lines:

- Performed exploratory data analysis on Netflix dataset using Python (pandas, matplotlib, seaborn).
- Visualized insights on content trends, countries, genres, and ratings.
- Interpreted data-driven insights to understand Netflix’s global content distribution patterns.