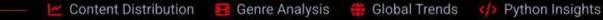
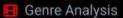
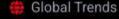
DATA-DRIVEN INSIGHTS

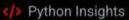
NETFLIX CONTENT ANALYSIS **USING PYTHON**

Exploring trends, patterns, and insights from Netflix's vast content library through advanced data analysis techniques









ABOUT NETFLIX

Netflix is a **global streaming giant** offering a vast library of films, TV series, documentaries, and original content across multiple languages and genres. With **over 200 million subscribers** in more than 190 countries, Netflix has transformed how people consume entertainment worldwide, pioneering the binge-watching culture and revolutionizing content production and distribution.



Streaming Service

On-demand access to thousands of titles



Global Reach

Available in 190+ countries worldwide



Original Content

Award-winning Netflix originals



Multi-device

Watch on smart TVs, phones, tablets, and more

PROJECT OBJECTIVE

To clean, analyze, and visualize Netflix's content data to gain actionable insights about content distribution, trends, and strategic patterns.



Data Cleaning

Transform raw Netflix data into a clean, consistent format ready for analysis



Data Analysis

Extract meaningful patterns and key insights from the processed data



Data Visualization

Create compelling visual representations of the findings

- Discover content distribution patterns • Identify regional content preferences
 - Track content growth over time

STEP 1: DATA CLEANING



Loaded dataset using pandas

import pandas as pd
df = pd.read csv('netflix.csv')



Removed duplicates

df.drop duplicates(inplace=True)



Filled missing country with "Unknown"

df['country'] = df['country'].fillna('Unknown')



Filled director and cast with "Not Specified"

df['director'] = df['director'].fillna('Not Specified')
df['cast'] = df['cast'].fillna('Not Specified')



Standardized date_added

df['date_added'] = pd.to_datetime(df['date_added'])



Extracted year_added and month_added

df['year_added'] = df['date_added'].dt.year
df['month_added'] = df['date_added'].dt.month



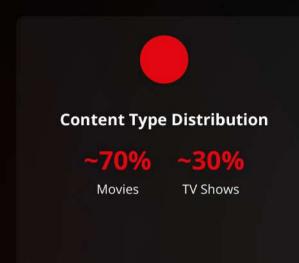


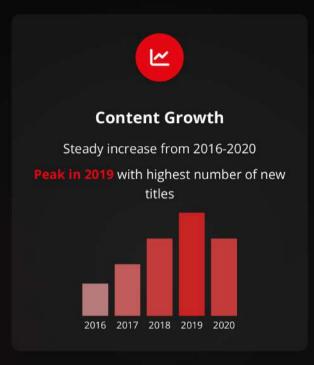






STEP 2: DATA ANALYSIS - KEY FINDINGS







Top Producing Countries

- 1. United States
- 2. India
- 3. United Kingdom
- 4. Japan
- 5. Canada





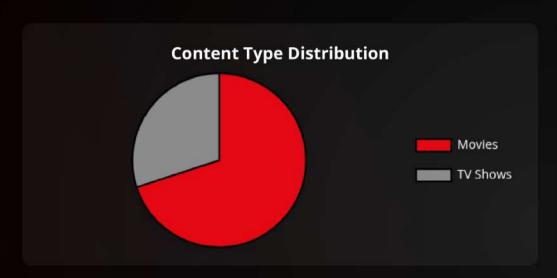
Content Duration

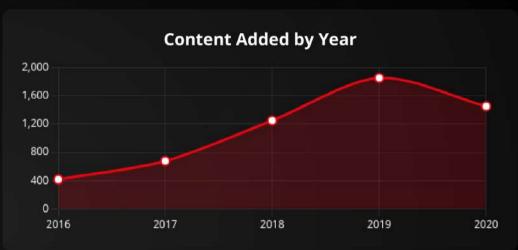
Some movies exceed

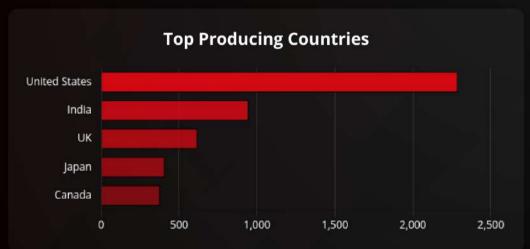
200+ minutes

(Over 3 hours runtime)

STEP 3: DATA VISUALIZATION











CONCLUSION

Key Insights

- Netflix's content library is predominantly movies (70%), with TV shows making up the remaining 30%
- Significant content growth from 2016-2020, with peak additions in 2019, indicating strategic content acquisition
- United States, India, UK, Japan and Canada are the top content producers, reflecting Netflix's global content strategy
- International TV shows, dramas, and comedies are among the most popular genres, showing diverse viewer preferences

Business Impact

This analysis provides crucial insights into Netflix's content strategy, helping to understand:

- · Regional content preferences and growth opportunities
- Optimal content type balance between movies and TV shows
- · Genre popularity to guide future content acquisition and production
- · Historical growth patterns to inform strategic planning

By leveraging these data-driven insights, Netflix can continue to refine its content strategy to better serve its global subscriber base.

THANKS FOR WATCHING

Are you still watching?

NEXT EPISODE