**Project -Netflix Titles EDA-GitHub**

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### **Objective**

Analyze Netflix content based on:

* Country distribution
* Genre types
* Yearly trends
* Duration of content

### **Dataset**

**Source:** [Kaggle - Netflix Movies and TV Shows](https://www.kaggle.com/datasets/shivamb/netflix-shows)

**Filename:** netflix\_titles.csv

## **GitHub Structure**

Netflix-EDA  
├── README.md  
├── requirements.txt  
├── netflix\_eda.py  
├── streamlit\_app.py  
├── images/  
│ ├── genre\_plot.png  
│ ├── yearly\_trend.png  
│ ├── country\_distribution.png  
│ ├── movie\_duration.png  
│ └── tv\_seasons.png  
└── netflix\_titles.csv

### **README.md (GitHub)**

**# Netflix Titles EDA**  
Explore the Netflix content library using Python & visual analytics.  
  
**## Key Objectives:**- Genre analysis  
- Year-wise trend  
- Country distribution  
- Duration (Movie vs TV)  
  
**## Dataset**- [Kaggle Dataset](https://www.kaggle.com/datasets/shivamb/netflix-shows)  
  
**#Tools Used**- Python: pandas, matplotlib, seaborn, plotly  
- Streamlit (for interactive dashboard)  
  
**# Key Insights**- Dominant genres: Drama, Comedy  
- Most content added after 2015  
- US, India, UK top producing countries  
- Most movies: 80–120 minutes  
- Most TV shows: 1–2 seasons  
  
**## How to Run**  
  
streamlit run streamlit\_app.py

## **Sample Visuals**

**# `requirements.txt`**  
  
pandas  
seaborn  
matplotlib  
plotly  
streamlit

### **streamlit\_app.py**

import streamlit as st  
import pandas as pd  
import matplotlib.pyplot as plt  
import seaborn as sns  
import plotly.express as px  
  
**# Title**st.title("Netflix Titles EDA Dashboard")  
  
**# Load dataset**df = pd.read\_csv("netflix\_titles.csv")  
df.fillna({'country': 'Unknown', 'director': 'Unknown', 'cast': 'Unknown'}, inplace=True)  
df['date\_added'] = pd.to\_datetime(df['date\_added'], errors='coerce')  
df['year\_added'] = df['date\_added'].dt.year  
df['month\_added'] = df['date\_added'].dt.month  
df['genre'] = df['listed\_in'].str.split(', ')  
  
**# Sidebar Filter**st.sidebar.header("Filter")  
selected\_type = st.sidebar.selectbox("Content Type", options=["All", "Movie", "TV Show"])  
if selected\_type != "All":  
 df = df[df['type'] == selected\_type]  
  
**# Genre Plot**st.subheader(" Top 10 Genres")  
genre\_explode = df.explode('genre')  
genre\_count = genre\_explode['genre'].value\_counts().head(10).reset\_index()  
genre\_count.columns = ['Genre', 'Count']  
fig1 = px.bar(genre\_count, x='Count', y='Genre', orientation='h', title='Top 10 Genres')  
st.plotly\_chart(fig1)  
  
**# Yearly Trend**st.subheader(" Yearly Trend of Content Release")  
yearly = df['release\_year'].value\_counts().sort\_index()  
yearly\_df = yearly.reset\_index()  
yearly\_df.columns = ['Release Year', 'Count']  
fig2 = px.line(yearly\_df, x='Release Year', y='Count', title='Year-wise Release Trend')  
st.plotly\_chart(fig2)  
  
**# Country-wise**st.subheader("Top 10 Countries")  
top\_countries = df['country'].value\_counts().head(10).reset\_index()  
top\_countries.columns = ['Country', 'Count']  
fig3 = px.bar(top\_countries, x='Country', y='Count', title='Top Countries by Content')  
st.plotly\_chart(fig3)  
  
**# Duration Analysis**st.subheader("Duration Analysis")  
  
if selected\_type == "Movie":  
 df['duration\_min'] = df['duration'].str.extract('(\d+)').astype(float)  
 fig4 = px.histogram(df, x='duration\_min', nbins=30, title='Movie Duration Distribution')  
 st.plotly\_chart(fig4)  
elif selected\_type == "TV Show":  
 df['num\_seasons'] = df['duration'].str.extract('(\d+)').astype(float)  
 fig5 = px.histogram(df, x='num\_seasons', nbins=10, title='TV Show Season Distribution')  
 st.plotly\_chart(fig5)  
else:  
 st.markdown("\_Select content type to see specific duration analysis.\_")

## **Streamlit Deployment**

You can deploy this project on [Streamlit Cloud](https://share.streamlit.io/) using these steps:

1. Push your project to GitHub.
2. Go to <https://streamlit.io/cloud> and sign in.
3. Click “New App”, select the GitHub repo and streamlit\_app.py.
4. Deploy and share the app URL!