

Investigating Netflix Movies



Part 1

Netflix! What started in 1997 as a DVD rental service has since exploded into one of the largest entertainment and media companies.

Given the large number of movies and series available on the platform, it is a perfect opportunity to flex your exploratory data analysis skills and dive into the entertainment industry.

You work for a production company that specializes in nostalgic styles. You want to do some research on movies released in the 1990's. You'll delve into Netflix data and perform exploratory data analysis to better understand this awesome movie decade!

You have been supplied with the dataset `netflix_data.csv`, along with the following table detailing the column names and descriptions. Feel free to experiment further after submitting!

The data

netflix_data.csv

show_id: The ID of the show
type: Type of show
title: Title of the show
director: Director of the show
cast: Cast of the show
country: Country of origin
date_added: Date added to Netflix
release_year: Year of Netflix release
duration: Duration of the show in minutes
description: Description of the show
genre: Show genre

Perform exploratory data analysis on the `netflix_data.csv` data to understand more about movies from the 1990s decade.

- What was the most frequent **movie** duration in the 1990s?
- A movie is considered short if it is less than 90 minutes. Count the number of **short action movies** released in the 1990s and save this integer as `short_movie_count`.

Part 2

Objective:

- To determine whether the average duration of movies on Netflix has been declining over the years.

In this part, you will investigate the trend in the duration of movies available on Netflix. By analyzing historical data, you will determine if there is a noticeable decline in the average length of movies. This analysis will involve data cleaning, exploration, visualization, and statistical testing.

Include suitable visualizations, such as charts or graphs, to investigate the trend.

There are a few questions about this trend that we are worth to answer, for instance:

1. What does this trend look like over a longer period of time?
2. Is this explainable by something like the genre of entertainment?

Your goal for this project is to present your findings using appropriate visualizations and statistical evidence to support their conclusions.

Presentation: 10-15 minutes