# Title: - Movie Rating Analysis using Python

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# Objective: -

We all watch movies for entertainment, some of us never rate it, while some viewers always rate every movie they watch. This type of viewer helps in rating movies for people who go through the movie reviews before watching any movie to make sure they are about to watch a good movie. So, if you are new to data science and want to learn how to analyze movie ratings using the **Python** programming language, this article is for you. In this article, I will walk you through the task of Movie Rating Analysis using Python.

# Problem statement: -

With the rise of digital devices and applications, people often find themselves spending significant amounts of time on screens, which can lead to health issues such as eye strain, disrupted sleep, and a sedentary lifestyle. However, many individuals are unaware of how much time they spend on various applications and devices. This lack of awareness makes it difficult to adopt healthier digital habits and maintain a proper work-life balance.

# Solution: -

Analyzing the rating given by viewers of a movie helps many people decide whether or not to watch that movie. So, for the Movie Rating Analysis task, you first need to have a dataset that contains data about the ratings given by each viewer. For this task, I have collected a dataset from Kaggle that contains two files:

1. one file contains the data about the movie Id, title and the genre of the movie
2. and the other file contains the user id, movie id, ratings given by the user and the timestamp of the ratings

# Implementation: -

import numpy as np

import pandas as pd

movies = pd.read\_csv("movies.dat", delimiter='::')

print(movies.head())

movies.columns = ["ID", "Title", "Genre"]

print(movies.head())

ratings.columns = ["User", "ID", "Ratings", "Timestamp"]

print(ratings.head())

data = pd.merge(movies, ratings, on=["ID", "ID"])

print(data.head())

ratings = data["Ratings"].value\_counts()

numbers = ratings.index

quantity = ratings.values

import plotly.express as px

fig = px.pie(data, values=quantity, names=numbers)

fig.show()

Output: -

