



**D.Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY,
KASABA BAWADA, KOLHAPUR**

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Project1 Synopsis On

“A Data Analysis on Netflix using Python”

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(DATA SCIENCE)

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INDEX

Sr. No.	Title	Page No
1	Introduction	1
2	Problem statement	1
3	Objectives	1
4	Proposed System Architecture	2
5	Modules	2
6	System Requirement	3
7	Conclusion	3
8	Reference	4

1. Introduction

Analytics is all about solving problems and Data analytics is the soul of the internet of things (IoT) technology. Analytics is everywhere, this could be working in a variety of different industries such as aviation, industries or government. With so many organizations looking to capitalize on data to improve their processes, it's a hugely exciting time to start a career in analytics.

Data analysis is a process of *inspecting, cleansing, transforming, and modelling data with the goal of discovering useful information, informing conclusions, and supporting decision-making*.

Data analysis has multiple facets and approaches, encompassing diverse techniques under a variety of names, and is used in different business, science, and social science domains. In today's business world, data analysis plays a role in making decisions more scientific and helping businesses operate more effectively.

2. Problem Statement

To do an extensive analysis of the data, to have a better recommendation for the subscribers and to add more content in a way so that more subscribers are added.

3. Objectives

Some of the most important tasks that we can analyze from Netflix data are:

1. To learn the common trends of users in a region.
2. To understand what content is available.
3. To understand the similarities between the content.
4. To understand what exactly Netflix is focusing on.
5. To do Sentiment Analysis.

4. Proposed System Architecture



Figure 1: Flow of Process

5. Modules

There are mainly 5 modules in this project they are as follows:

Numpy: Used for making Linear Algebraic Calculation



Pandas: Used to read and prepare Data



Plotly: Used for Data Visualization



Kaggle: To Obtain latest Data



Netflix Data set: To read the available Data



6. System Requirement

Hardware Requirements:

1. Operating System: Windows/ MacOS
2. Processor: i3 and above
3. Ram: 4 Gb
4. Internet Access

Software Requirements:

1. Programming Language: Python
2. Tools and Libraries: Numpy, Pandas, Plotly, Kaggle
3. IDE: VS Code

7. Conclusion

Our work distinguishes the type of content that is available on Netflix, the similarities between the content and what the ultimate goal of Netflix is and could be planning. Not only that, but also gives new content creators and filmmakers the opportunity to experiment with the users to give them a better experience altogether.

Sentiment analysis, also referred to as opinion mining. Through this organizations can determine and categorize opinions about a product, service, or idea. In turn helping the end users get a better watching experience. This gives a clear idea on how data analysis can aid in the prediction and development of various industries.

8. Reference

3 Page

- <https://www.netflix.com/browse>
- https://en.wikipedia.org/wiki/Data_analysis
- <https://thecleverprogrammer.com/2021/01/16/netflix-data-analysis-with-python/>
- <https://data.world/chasewillden/netflix-shows>

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