

ABESIT



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Project Synopsis

on

"A Data Analysis on Netflix Using Python"

Submitted in Partial Fulfilment of the Requirement

For the Degree of

Bachelor of Technology

In

Computer Science and Engineering

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Abstract

As we all know in today's world with day-to-day advancement in technologies people are searching for more and more easy and convenient ways to operate, So, we decided to work on making 'Data Analysis on Netflix' process simpler and more convenient. By creating this we are also using and improving our knowledge to do some real-world application.

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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.

Junanalysis 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 businessworld, data analysis plays a role in making decisions more scientific and helping businesses operate more effectively.

Purpose of The Project

The purpose of any project is to benefit the society in an effective way. The purpose of building this project is to solve real world problem and expand our knowledge. This project will help 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.

Aims

1. Expand our knowledge and contribute to society.
2. Build a real-world project.

Objective

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.

Research Approach/Methodology

In B-tech Third year we decided to make a project through which we can do some real-world task.

After some brainstorming, we landed up on making a Data Analysis on Netflix Using Python.

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.

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

System Requirements

Hardware Requirements:

- 1- RAM /memory required: 4GB
- 2- Operating System: Windows/ MacOS
- 3- Good Internet Connection (Up to 1Mbps)
4. Processor i3 or above

Software Requirements:

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

References

- <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>