

African Leadership University

Artificial Intelligence group work

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Introduction

This project aims to understand the commercial performance of Netflix in the last five years. This is achieved by performing exploratory data analysis on Kaggle's updated Netflix data and exploring viable metrics like shows trends, countries with the most movie production, etc.

Background

Netflix, Inc. is an American over-the-top content platform and production company headquartered in Los Gatos, California. Netflix was founded in 1997 by Reed Hastings and Marc Randolph in Scotts Valley, California. Netflix is a streaming service that offers a wide variety of award-winning TV shows, movies, anime, documentaries, and more on thousands of internet-connected devices. (Netflix, 2021).

Environment Needed to Scale

1. A server with a publicly available IP address. Popular OS like Linux, Windows, macOS, and FreeBSD
2. A working Python or Anaconda installation bundled with a not less than python 3.2 version.
3. Installation via the respective package managers(pip, conda, etc) of the required libraries and dependencies.
4. Working installation of Jupyter notebook.

Implementation Timelines

This project is estimated to take a duration of 3 weeks. The first week is spent collaborating with all the relevant stakeholders, understanding the business context, defining the project scope and sourcing the right data. The second week will be spent cleaning and analysing the data. And the final week will be spent drawing conclusions and communicating these back to the relevant stakeholders.

Risk

- Inadequate data: This might affect the quality of the analysis

Requirements

- Data source
- Human resources(data scientist, data analyst, data engineers, software developers, DevOps engineers, etc)
- Material resources(servers, work pc, GPUs, etc).

Requirements

- Data Analysis and Jupyter Notebook - Ahmed Meshef
- Documentation - Paul Arah
- Presentation - Paul Arah and Ahmed Meshef
- Research Paul Arah and Ahmed Meshref.

Conclusion

A detailed description of our entire data analysis workflow and conclusions documented in the slides and Jupyter notebooks.

References:

- [1]"Netflix Movies and TV Shows", Kaggle.com, 2021. [Online]. Available: <https://www.kaggle.com/shivamb/netflix-shows>. [Accessed: 07- Mar- 2021].