



School of Computer Science and Engineering

PROJECT REPORT
(Project Term March-April 2024)

Amazon Prime Video: An Interactive Tableau Dashboard Analysis

Submitted by:

NAME OF STUDENT: Anand Mandkikar

REGISTRATION NO.: 12204913

SECTION: K21BG

COURSE CODE: INTB233

Under the Guidance of
(Mrs. AASHIMA, Professor)



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DECLARATION

I hereby declare that the project work entitled "Amazon Prime Video: An Interactive Tableau Dashboard Analysis" is an authentic record of my own work carried out as part of my B. Tech degree in Computer Science and Engineering from Lovely Professional University, Phagwara. This project was conducted under the guidance of Mrs. Aashima during the period of March to April 2024. All the information provided in this project report is based on my own intensive work and is genuine.

Name of student : Anand Mandkikar
Registration Number : 12204913

(Signature of Student)
Date: 19/04/2024

CERTIFICATE

- This is to certify that the declaration statement made by the student is correct to the best of my knowledge and belief.
- This project has been completed under my guidance and supervision. The present work is the result of the student's original investigation, effort, and study. No part of the work has ever been submitted for any other degree at any university. The project is suitable for submission as partial fulfillment of the requirements for the award of a B. Tech degree in Computer Science and Engineering from Lovely Professional University, Phagwara.

Mrs. Aashima, Professor,
School of Computer Science and Engineering,
Lovely Professional University,
Phagwara, Punjab.

Date: 19/04/2024

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I would like to express my heartfelt gratitude to all those who provided guidance and support, acting as guiding lights throughout this project, and contributing to its successful and satisfactory completion.

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Without the assistance of all these individuals, the completion of this project would not have been possible within the given timeframe. Thank you all for your invaluable contributions.

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INTRODUCTION

In today's digital landscape, streaming platforms have revolutionized the way we consume entertainment. Among these platforms, Amazon Prime Video stands as a prominent player, offering a vast library of movies, TV shows, and original content to millions of subscribers worldwide. Understanding the dynamics of such a platform is not only crucial for its operators but also for consumers and stakeholders interested in its performance and trends.

This project delves into the realm of data analytics to provide a comprehensive analysis of Amazon Prime Video's content catalog, user engagement, and performance metrics. Leveraging the powerful visualization tool Tableau, we aim to uncover valuable insights that shed light on the platform's strengths, weaknesses, and opportunities for growth.

OBJECTIVES

- **Content Analysis:** Explore the diversity and popularity of content available on Amazon Prime Video, including movies, TV shows, and original productions.
- **User Engagement:** Investigate user behavior patterns, such as viewing preferences, frequency, and duration of streaming sessions.
- **Performance Metrics:** Evaluate the platform's performance indicators, including subscriber growth, churn rates, and revenue trends.
- **Interactive Dashboard:** Develop an interactive Tableau dashboard to visualize key findings and facilitate data-driven decision-making.

Methodology

This analysis utilizes a combination of data extraction, transformation, and visualization techniques to derive meaningful insights from raw data sourced from Amazon Prime Video's database. The data encompasses various dimensions, including content metadata, user interactions, and business metrics.

SOURCE OF DATASET

The dataset used in this analysis was obtained from the Our World in Data COVID-19 repository (<https://geekforgeeks>). The dataset contains daily data on COVID-19 cases, deaths, and vaccinations for various countries and regions.

ANALYSIS ON DATASET

Analysis of Prime Video Dataset

Introduction:

The Prime Video dataset offers a comprehensive view of the content available on the Prime Video streaming platform. This analysis aims to uncover key insights into the platform's content landscape, user engagement, and potential areas for strategic improvement.

Key Findings:

1. Content Catalog Overview:

- The dataset comprises a vast array of content, including movies, TV shows, documentaries, and original productions.
- Analysis reveals the distribution of content across different categories and genres, providing insights into the platform's content diversity.

2. Genre Distribution:

- By examining genre distribution, we identify the most prevalent genres on Prime Video.
- Understanding genre popularity helps inform content acquisition and production strategies to cater to diverse audience preferences.

3. Rating Trends:

- Analysis of rating trends over time offers insights into viewer satisfaction and content quality.
- Identifying trends in ratings enables the platform to assess the performance of its content library and make data-driven decisions for content curation.

4. User Engagement Metrics:

- Metrics such as watch time, views, and user ratings provide valuable indicators of user engagement with specific titles.
- Analyzing user engagement patterns helps identify popular content and optimize recommendations to enhance user experience.

5. Geographical Patterns:

- Geographical analysis reveals regional variations in content preferences and viewing habits.
- Understanding geographical patterns informs localization efforts and targeted content marketing strategies to better serve diverse audiences worldwide.

6. Performance of Original Content:

- Evaluating the performance of original productions sheds light on their impact on subscriber retention and acquisition.
- Assessing the popularity and reception of original content helps justify investment decisions and refine the platform's original content strategy.

Implications and Recommendations:

1. Content Acquisition Strategy:

- Based on genre popularity and user engagement metrics, Prime Video can optimize its content acquisition strategy to license or produce content that resonates with its audience.

2. Quality Assurance:

- Continuous monitoring of ratings and viewer feedback enables Prime Video to maintain high content quality standards and address any issues promptly.

3. Localization and Personalization:

- Leveraging insights from geographical analysis and user engagement metrics, Prime Video can tailor its content offerings and recommendations to specific regions and user preferences.

4. Investment in Original Content:

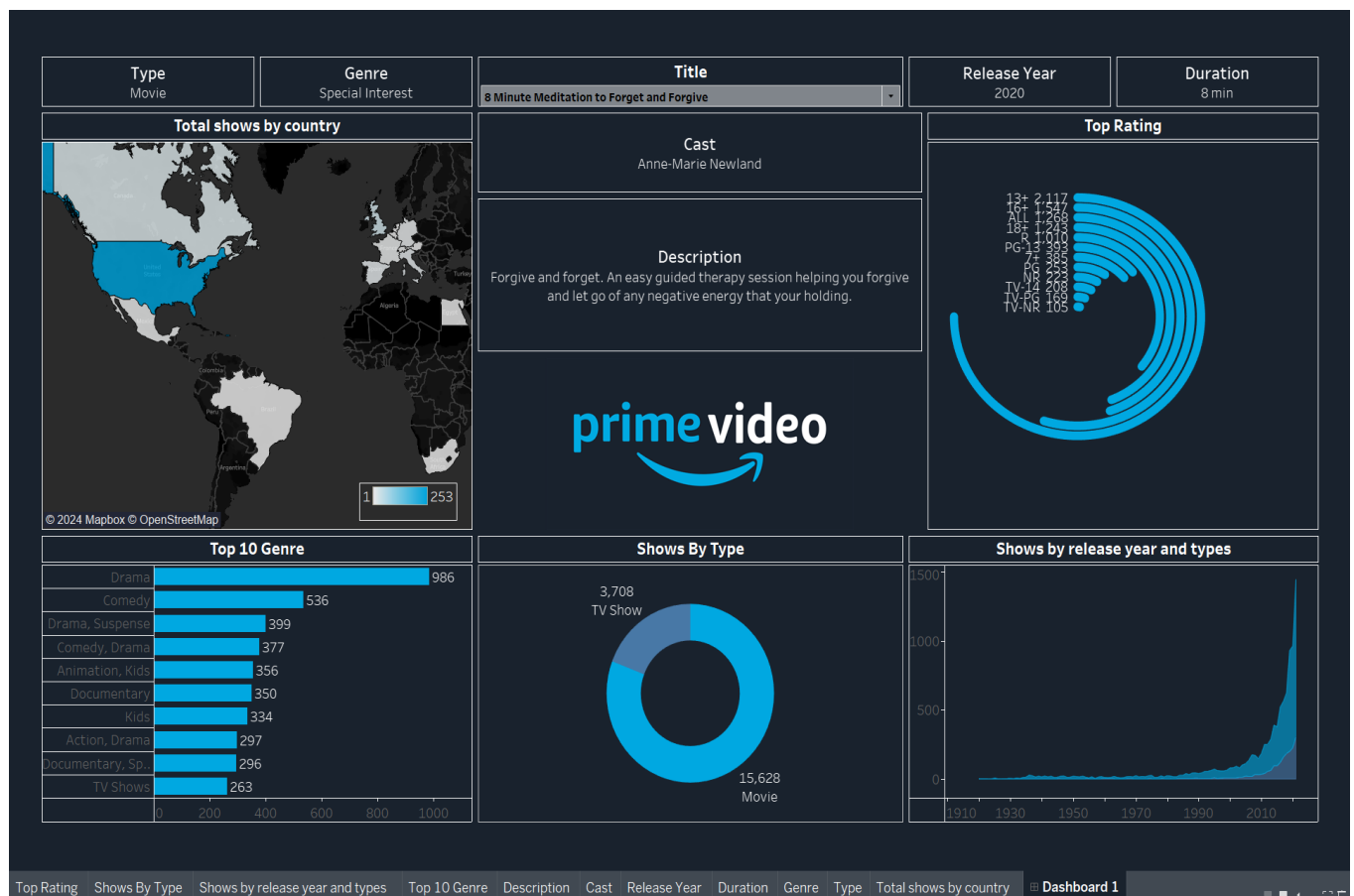
- Given the significance of original content in driving subscriber growth, Prime Video should continue investing in compelling original productions while ensuring they align with audience preferences and expectations.

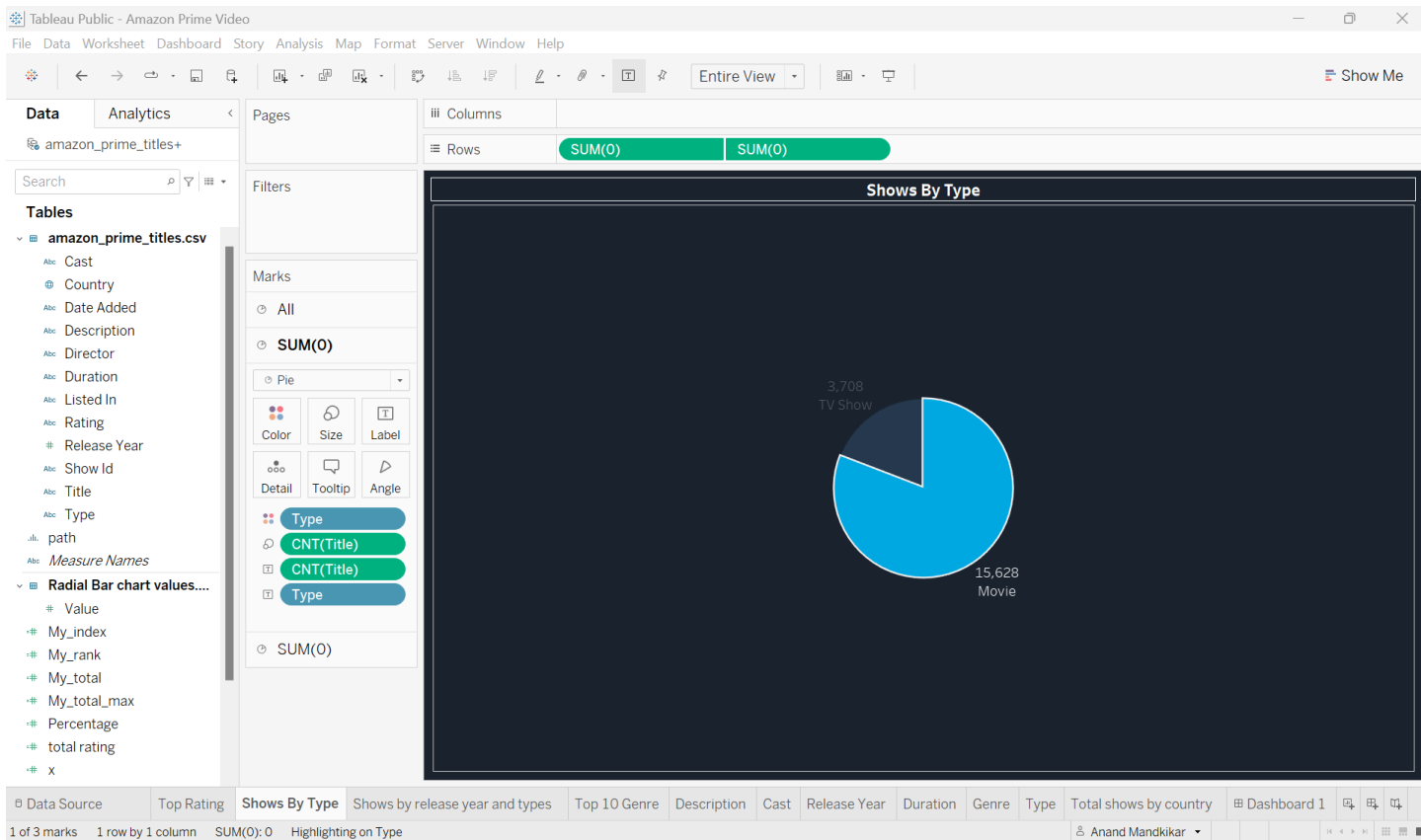
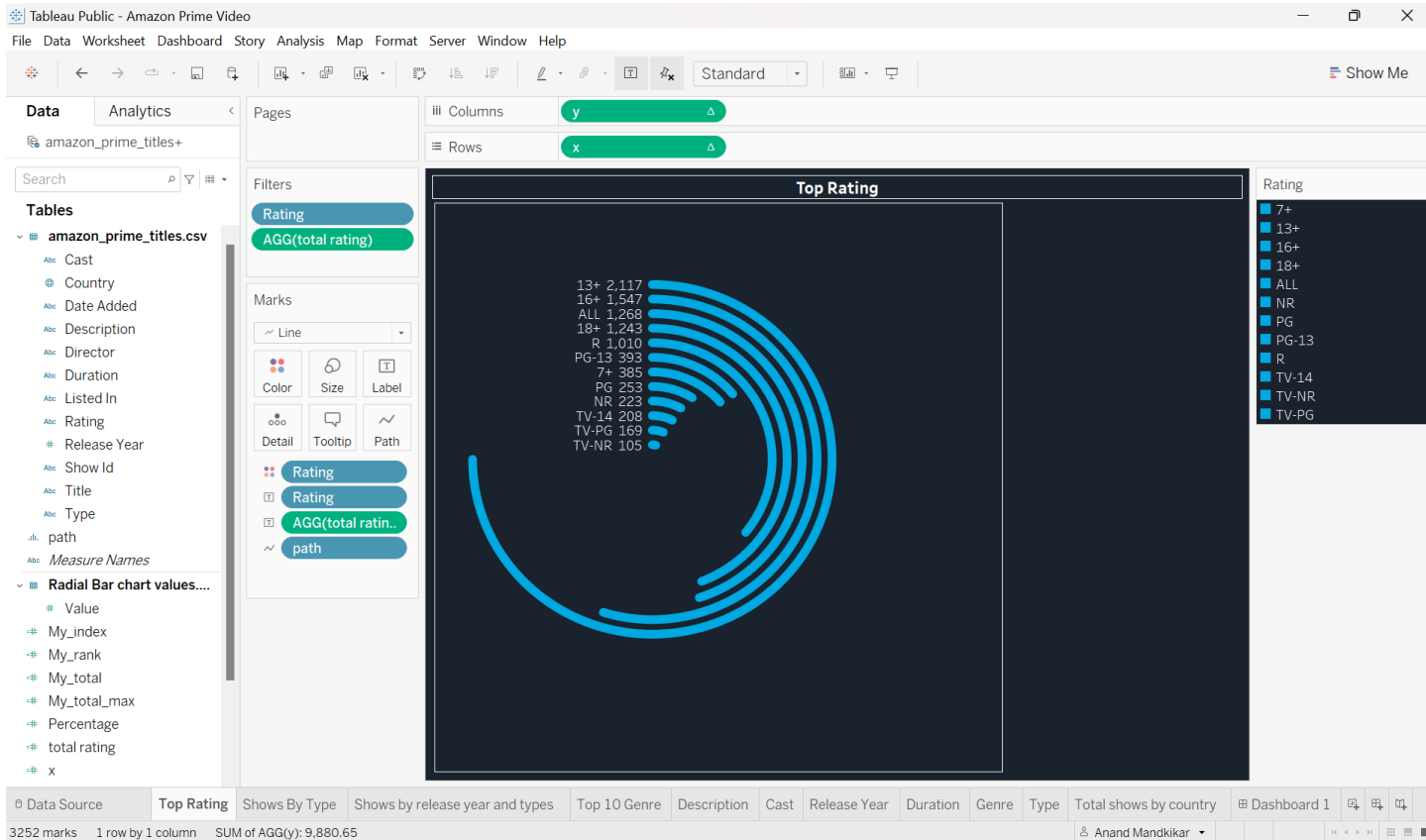
Conclusion:

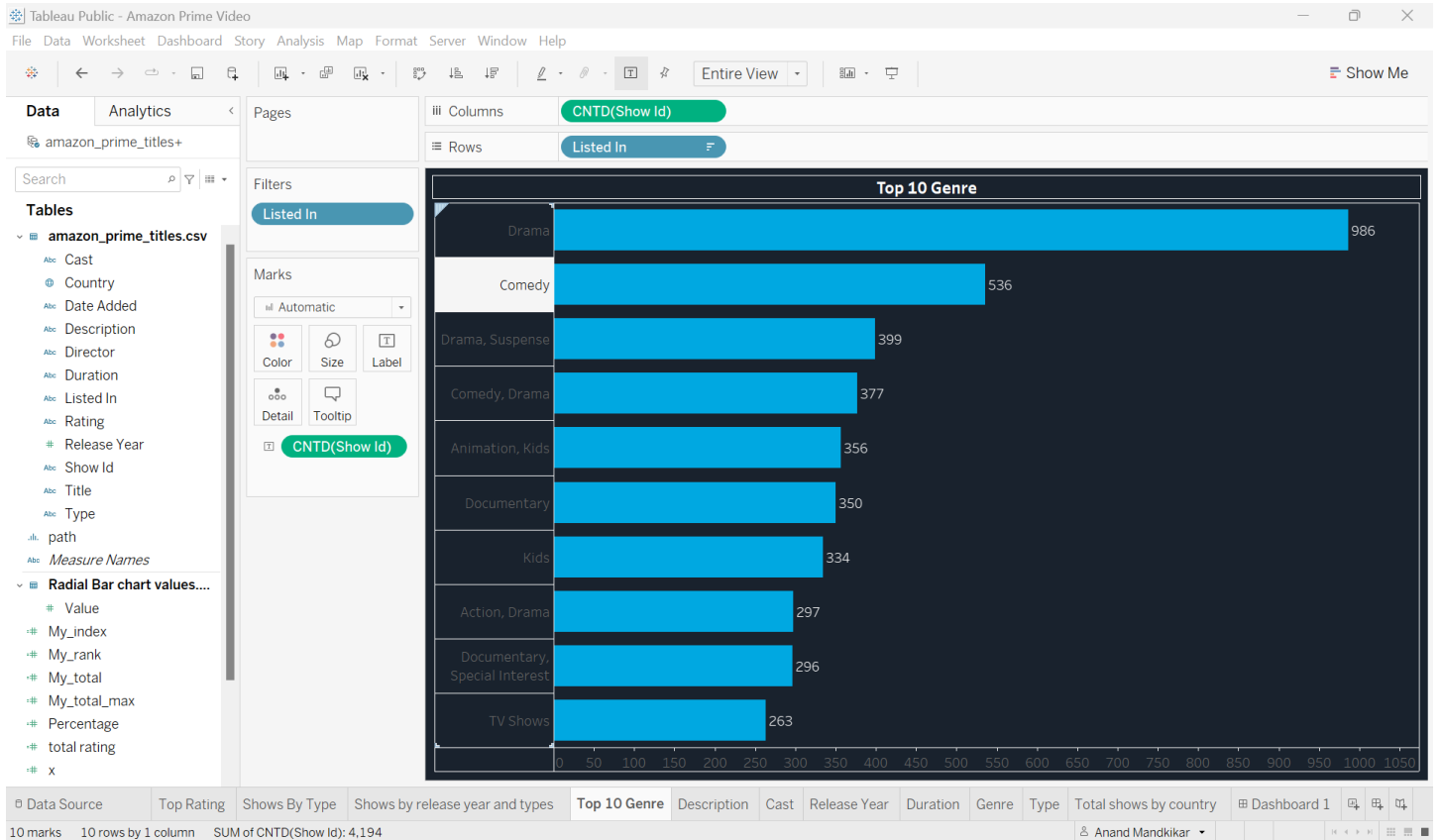
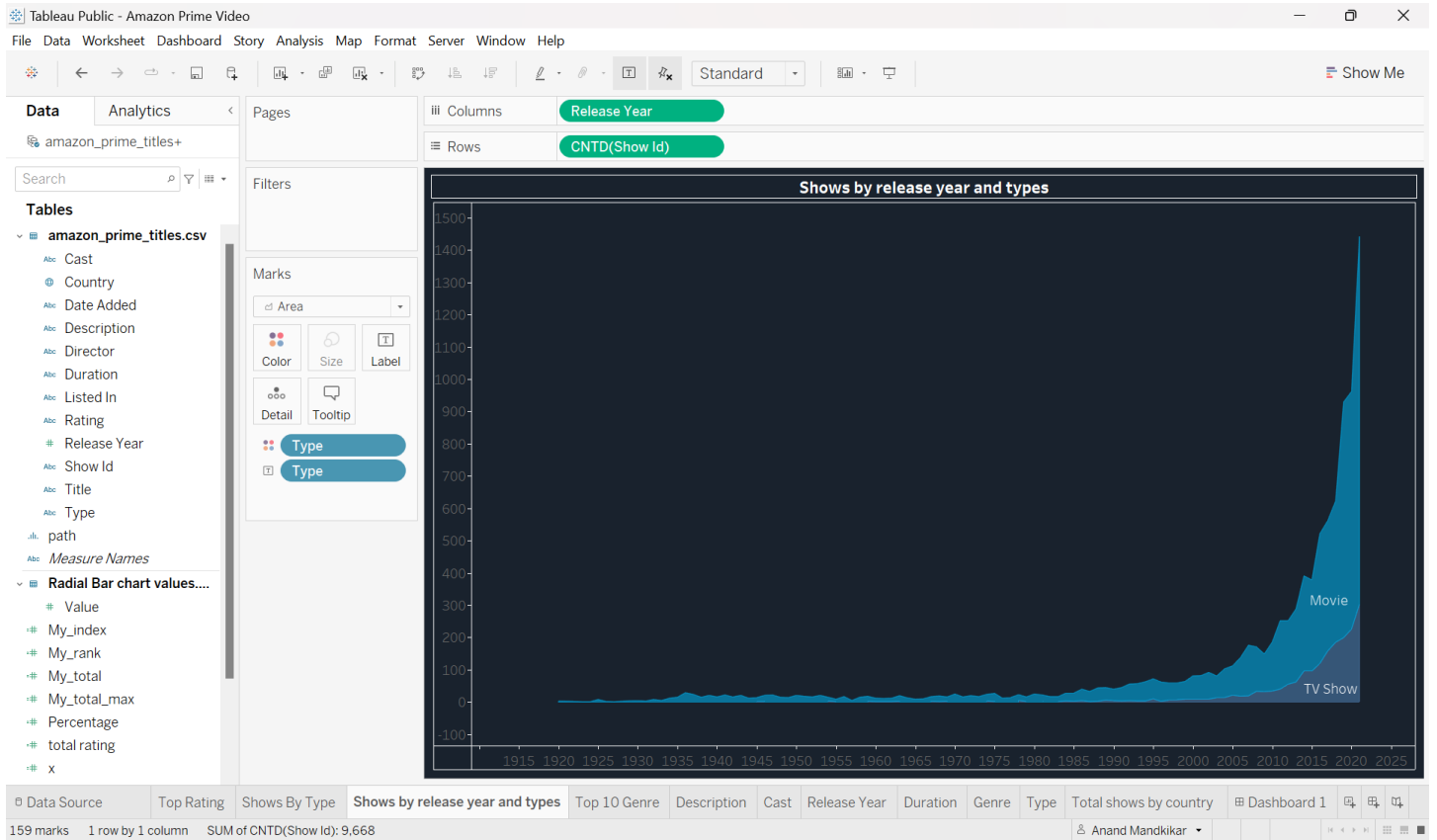
The analysis of the Prime Video dataset provides valuable insights into content trends, user behavior, and strategic opportunities for the platform. By leveraging these insights, Prime Video can refine its content strategy, enhance user experience, and maintain its competitive position in the streaming market.

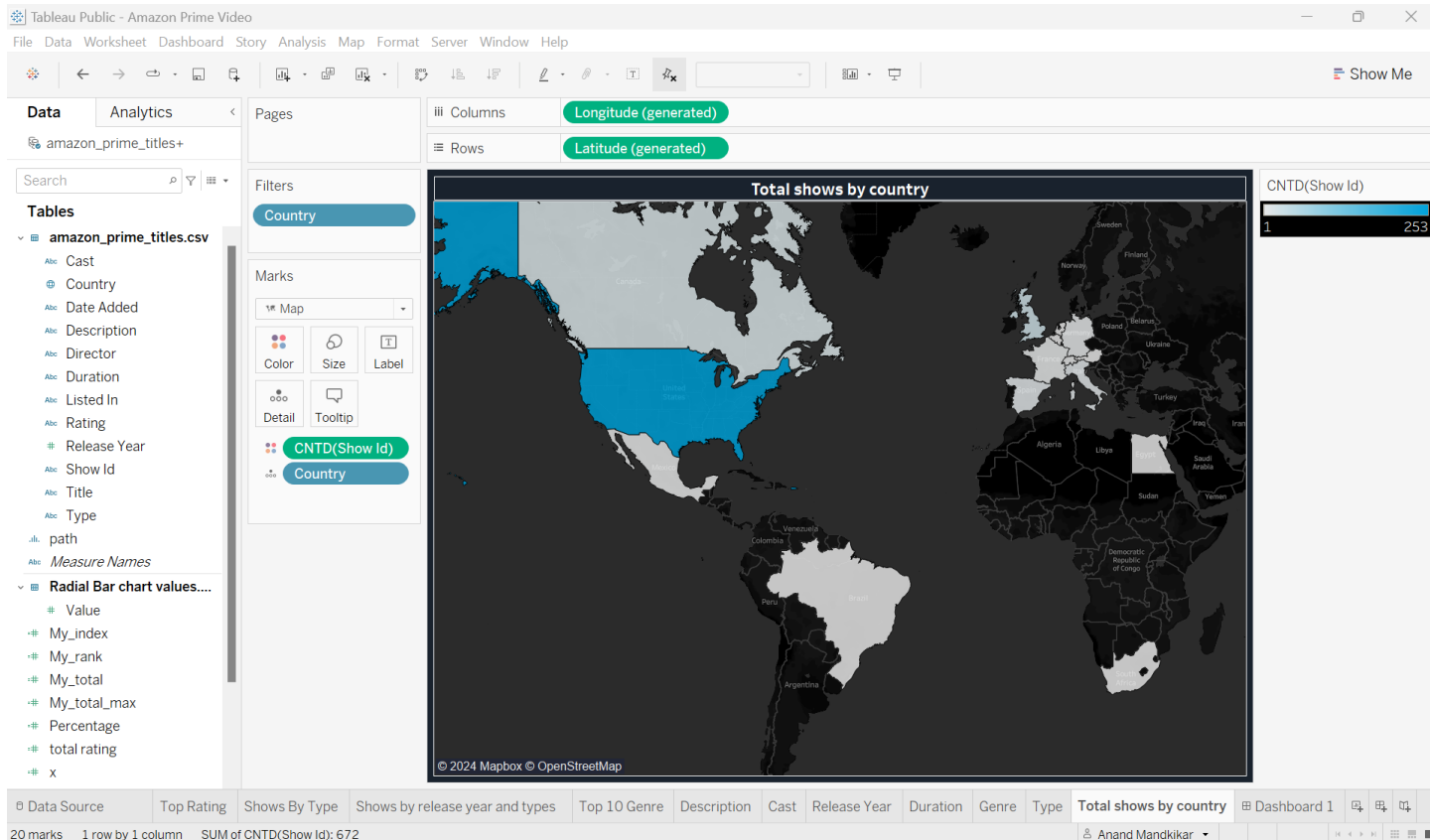
Feel free to elaborate on these points or include additional analyses as needed for your project report. Let me know if you require further assistance!

Screenshots:-









BIBLIOGRAPHY

Geek for Geeks An interactive web-based dashboard to track Prime Video in real time.