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Abstract

Enhancing Entertainment Discovery with Comprehensive Reviews and Personalized Recommendations.

In today's diverse and expansive media landscape, the challenge of discovering high-quality entertainment content remains a significant hurdle for enthusiasts of movies, series, and books. With our project, we want to address this issue by creating a centralized platform that provides comprehensive reviews, insightful critiques, and personalized recommendations for a wide array of media and entertainment content.

The platform consolidates data from multiple sources, including expert reviews, user-generated content, and sophisticated recommendation algorithms, to offer a tailored approach to content discovery. Collecting and analyzing users' preferences, engagement history, and feedback, we strive to deliver highly curated suggestions that align with individual tastes and interests.

Through a commitment to excellence in content curation, a user-centric approach to interface design, and continuous refinement of our recommendation system, we aim to become the go-to destination for all entertainment enthusiasts seeking a reliable, engaging, and immersive media discovery journey.



Type of Company (Business Segment)

As mentioned in the abstract, our project, will be about *Media and Entertainment*.

Company

CritiVerse, a small yet dynamic entertainment-based company, is the brainchild of passionate entertainment enthusiasts. Centered around the world of books, movies, and series, CritiVerse endeavors to simplify the decision-making process for its users. The company's primary goal is to establish a user-friendly website that offers personalized recommendations through an engaging chatbot, CritiBot. By delving into individual preferences and profiles, considering factors like age, preferred entertainment medium, genres, and more, CritiBot aims to provide tailored suggestions, ensuring an enhanced viewing or reading experience.

Our Team

1. Alexandra Pinto - Data Scientist

As the Data Scientist at CritiVerse, Alexandra Pinto brings a fervor for the realm of data science, particularly in deep learning and machine learning models. Her affinity for numbers intertwines seamlessly with her love for the cinematic world, especially in sci-fi and action genres. Alexandra is the go-to person for unraveling intricate data patterns and translating them into actionable insights for CritiVerse's recommendation algorithms.

Beyond her analytical prowess, Alexandra embodies a cinematic passion, often found frequenting movie theaters to absorb the latest releases. Her knack for deciphering complex data is complemented by her ability to discern the nuances of compelling storytelling, fostering a unique synergy in her approach to both work and entertainment.

2. Francisco Farinha - CMO (Chief Marketing Officer)

At the helm of CritiVerse's marketing endeavors is Francisco Farinha, the Chief Marketing Officer. Blending his penchant for machine learning and forecasting techniques with an inherent appreciation for the arts, Francisco infuses creativity into the company's promotional strategies. His unique perspective, shaped by an aesthetic eye and an affinity for artistic expressions, contributes significantly to crafting compelling narratives around CritiVerse's offerings.

Aside from his professional acumen, Francisco revels in the beauty of artistic creations, often immersing himself in various art forms to draw inspiration for marketing campaigns. Whether it's deciphering data trends or curating visually captivating campaigns, Francisco's ability to bridge the worlds of analytics and aesthetics defines his role within CritiVerse.

3. Ilona Nacu - CEO (Chief Executive Officer)

Steering CritiVerse with a blend of programming prowess and exceptional leadership skills is Ilona Nacu, the Chief Executive Officer. With a passion for programming and a knack for organization, Ilona orchestrates the company's operations seamlessly. Her love for reading, particularly in the realms of fantasy and mystery novels, shapes her approach to problem-solving and strategic planning within the company.

Beyond her role, Ilona finds solace in the pages of gripping narratives, drawing parallels between the intricate plots of her favorite books and the complexities of business dynamics. Her ability to navigate the intricacies of storytelling mirrors her adeptness in steering CritiVerse towards achieving its vision.

4. João Barradas - Software Developer

João Barradas, a Software Developer at CritiVerse, thrives on his passion for machine learning models while embodying eclectic tastes in movies and TV shows. His technical prowess, especially in developing algorithms that power CritiVerse's recommendation systems, stems from his deep-rooted fascination with the intricacies of machine learning.

Apart from his coding endeavors, João's diverse interests manifest in his multifaceted entertainment preferences, which span across various genres and styles. His role in implementing cutting-edge solutions at CritiVerse is driven by a curiosity that transcends the boundaries of conventional programming.

5. Rafael Proença - CIO (Chief Information Officer)

Rafael Proença, serving as the Chief Information Officer at CritiVerse, shares a passion for programming and mathematics, both in theory and practice. His adeptness in leveraging technical expertise to enhance the company's information systems defines his crucial role within the organization. Alongside his proficiency in technical domains, Rafael harbors a deep appreciation for classic movies, infusing a timeless perspective into his work.

Beyond his responsibilities, Rafael's love for cinematic classics reflects in his approach to technological innovation, aiming to seamlessly blend the timeless elements of storytelling with cutting-edge advancements. His multifaceted interests contribute significantly to shaping CritiVerse's technological landscape.

Main Things to Resolve with the CritiVerse

1. Elevating the Quality of Reviews and Information

Objective: Provide comprehensive and reliable reviews for movies, series, and books.



2. Simplifying the Discovery of New Content

Objective: Offer personalized recommendations based on user preferences to make it easier to find new and interesting content.

3. Centralizing Sources of Information

Objective: Consolidate information from various sources into a centralized platform for easy and comprehensive access to data, reviews, and recommendations across various types of media and entertainment.

4. Fostering Interaction in the Entertainment Enthusiast Community

Objective: Create an engaging and interactive environment for entertainment enthusiasts to share interests and recommendations.

5. Enhancing User Satisfaction in Entertainment Choices

Objective: Improve user experience in discovering content, provide reliable critiques, and deliver personalized recommendations to increase satisfaction in entertainment choices.

Target Customers

1. Media Enthusiasts: Individuals who have a strong interest in various forms of media, including movies, TV shows, and books, and who are constantly seeking new content to explore and enjoy.

2. Content Consumers: Users who frequently engage with different types of media and are interested in accessing reliable reviews and recommendations to make informed decisions about their entertainment choices and who want access to media that they will for sure enjoy, avoiding entertainment not suited to their profile and access to personalized recommendations based on user prompts or previous history.

Definition of Users' Data

The next subtopics are related to the user's data that will be used in the website. Later, in this same section, we will elaborate on the several features that we will have to take into account for the classification problem. So for the website and app through ChatBot, that we decided to call CritiBot, or possibly, an initial questionnaire, for example, we will have to consider:

1. **Personal Preferences**: Information about users' preferred genres, themes, and content types to provide tailored recommendations and a personalized entertainment experience.

2. **Engagement History**: Data related to users' interactions with different media, entertainment content, and the CritiBot (that can provide answers on personalized recommendations and more information about entertainment content), including their



viewing, reading, and prompt history, to offer relevant suggestions and improve the overall user experience.

3. User Feedback and Reviews: Insights derived from users' feedback, ratings, and reviews, contribute to refining the recommendation algorithms and enhancing the quality of the content provided to the user. Users will be able to leave reviews and ratings directly on the platform, publicly or privately, so that they can see for themselves what they have enjoyed so far.

4. Demographic Information: Basic demographic data, such as age, gender, and location, to better understand the target audience and tailor the platform's offerings to meet their specific needs and preferences.

By addressing these main problems and focusing on the defined target customers and users' data, the company can create a robust platform that caters to the specific needs of media enthusiasts and provides a seamless and engaging entertainment experience.

Selected datasets

To do our project, we will use Kaggle Datasets with reviews, scores, synopsis, genre, and other features that we consider that be useful for our website.

About series, we choose the following datasets:

- [IMDb TV Series Data](#)
- [50,000 IMDB TV and Web Series](#)
- [IMDB TV Series Dataset | Kaggle](#)
- [TV Series Dataset | Kaggle](#)

Note: we were thinking about joining all these data sets about series and merging by some identical columns, also, if there any series in a different data set, we would like to join them and have more reviews.

About movies, we choose the following datasets:

- [Rotten Tomatoes movies and critic reviews dataset](#)
- [ReelView: Top Movies Reviews | Kaggle](#)
- <https://www.kaggle.com/datasets/andrezaza/clapper-massive-rotten-tomatoes-movie-s-and-reviews>
- [IMDB Movie Reviews 2021 | Kaggle](#)
- [IMDB Top 250 Movies](#)

Note: same idea as series datasets.

About books we choose the following datasets:

- https://www.kaggle.com/datasets/mohamedbakhmet/amazon-books-reviews?select=books_data.csv
- [Book-Crossing: User review ratings](#)

Note: like in series and movies, it is our goal to merge these two datasets. An interesting thing is that different book has different id/ISBN, this will help us to avoid duplicated books.



We are aware that this can be too much information. However, we find it useful to merge all these datasets and different ratings. We are also thinking about creating our Score: **CritiScore**, which is based on the other ratings (like IMDb, Rotten Tomatoes, and other reviews available in the dataset provided).

The CritiScore is an aggregate evaluation metric derived from multiple individual rating criteria within a specific domain, such as books, movies, or TV shows. It offers a consolidated and unified assessment that combines various rating sources into a single score, facilitating a more comprehensive understanding and comparison of the quality or reception of a particular item within its category.

Here's a breakdown of what CritiScore represents:

1. Composite Metric: It combines multiple individual ratings or scores, often sourced from diverse platforms or critics, into a single value.

2. Weighted Aggregation: In scenarios where multiple ratings are available, it calculates a weighted average, assigning appropriate significance or weight to each individual rating.

3. Normalization: Ratings are often rescaled to a common range, such as 0 to 100, to ensure comparability and standardization across different rating systems.

4. Holistic Assessment: CritiScore provides a holistic view, considering various perspectives, audience feedback, or critic reviews to offer a more comprehensive judgment of the quality or reception of an item.

In essence, CritiScore acts as a summarizing metric that condenses diverse ratings into a single, comprehensive score, enabling easier comparisons and assessments across different entities within a specific domain.

Classification Problem

For the classification problem, we are thinking about creating unique personas based on their entertainment consumption patterns that can enhance user engagement and personalization on your platform. To implement this idea effectively, we would need to consider various features that capture user behavior and preferences across different types of media. For this, we need to take into account some user data, such as:

- Genre Preferences: Capture the user's preferences for specific genres within books, series, and movies, such as romance, sci-fi, fantasy, thriller, and drama.
- Content Interaction Frequency: Track how frequently users interact with different types of media content, including the frequency of book reading, series watching, and movie viewing.

- Rating Patterns: Analyze the user's rating patterns for books, series, and movies, including the frequency of high ratings and specific genres that receive favorable reviews.
- Review Contribution: Consider the user's engagement in providing reviews and feedback for books, series, and movies, indicating their level of involvement and interest in sharing their opinions.
- Content Diversity: Evaluate the diversity of content consumption, examining whether users explore a wide range of genres or tend to focus on specific types of content across books, series, and movies.
- Time Spent: Assess the amount of time users spend on each type of media, indicating their level of engagement and interest in exploring different forms of entertainment.
- Similarity in Recommendations: Analyze how users respond to recommendations across books, series, and movies, identifying patterns in their acceptance or rejection of suggested content.

By leveraging these features, we hope to develop a robust clustering model that effectively categorizes users into distinct personas based on their entertainment preferences and behavior. These personas can then be used to provide tailored recommendations, personalized content, and a more engaging user experience on your platform. Additionally, you can use these personas to create unique names or labels that resonate with each user group, further enhancing the personalization and user engagement aspects of your platform. There are some examples of personas that we could have:

- The Bookworm Romantic: Enthralled by love stories, both contemporary and historical.
- The Sci-Fi Connoisseur: Fascinated by futuristic realms and speculative concepts, for example, dystopian movies.
- The Adventure Seeker: Thrives on adrenaline-inducing plots and unexpected twists.
- The Genre Explorer: Embraces diverse storytelling across various genres.
- The Historical Fiction: Enamored with the intricacies of the past through literature.
- The Documentary Buff: Seeks knowledge through insightful and educational documentaries.

These personas are just an example, we will try to explore more and improve it. This persona will be stored in a thing that we named **CritiVerse Personalities**. This will be based on the information that a user will give us in the first chat or the initial questionnaire, as already mentioned. This persona can be adapted over time.



Data Acquisition Strategy

1. **Artificial Data Generation:** In the case that we don't think that we have enough information for this classification problem, the creation of **CriticVerse Personalities**, we may need to artificially generate that data.

2. **Open Source Data Collection:** We utilize open-source datasets available on Kaggle, already mentioned in the topic **Selected datasets**.

By combining these data acquisition strategies, we can create a robust dataset for training and evaluating the sentiment analysis model. We will need to ensure that the dataset is well-balanced, diverse, and representative of various entertainment genres and review styles to enhance the model's generalization and performance on real-world data, and if not, make necessary changes and adjustments.

Conversation App Features

1. Chat with Customer: Enable real-time chat functionality for users to interact with the platform and seek assistance with content recommendations and inquiries.

2. Recognize the Customer: Implement user authentication and recognition to provide personalized recommendations and access to user-specific data and preferences and also provide him a **CritiVerse Personality**.

3. Perform an Action: Allow users to perform various actions within the app, such as submitting reviews, rating content, saving favorites, and sharing content on social media.

By incorporating these features into the conversation app, the platform can offer an engaging and personalized experience for users, facilitating seamless content discovery, user interaction, and satisfaction within the media and entertainment domain.

Marketing Strategies

1. Brand and Message: Establish a strong brand identity and communicate a clear, engaging message. By incorporating the brand name "CritiVerse" into key elements such as CritiFusion, CritiPersonalities, and CritiBot, we've created a more relatable and engaging experience.

2. Social Media and Content: Utilize platforms like Facebook, Instagram, X, and even a Youtube channel to share engaging content, including sharing the most popular reviews and recommendations, per week, for example. Also, the creation of TikTok may be a good idea since there's a huge community involving Media and Entertainment.

3. Influencers: Collaborate with influencers to expand reach and credibility. In today's world, huge influencers are popular for doing reviews, or for incentivizing the public to consume some specific book, serie, or movie. As we share the same "public" this might be a good way to get their fans to know our website.



Final Note

This document serves as the foundational basis for this project. While certain elements related to the project's design and aesthetics may be subject to modification, the content and core aspects outlined herein form the fundamental structure upon which the project is built.