CAPSTONE PROJECT

FANDANGO MOVIE RATING DISCREPANCY ANALYSIS

Presented By:
Maha Lakshmi C– Anna University Regional Campus Madurai
- B.E CIVIL Engineering

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OUTLINE

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PROBLEM STATEMENT

The Fandango Movie Rating Discrepancy Analysis project addresses concerns regarding the accuracy and transparency of movie ratings on the Fandango platform. Recent investigations have revealed significant disparities between Fandango ratings and those of other movie rating platforms like Rotten Tomatoes or IMDb, raising questions about the reliability of Fandango's rating system. This project seeks to investigate the extent of rating inflation on Fandango, understand the factors contributing to this inflation, and propose solutions to ensure fair and accurate movie ratings for consumers.

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PROPOSED SOLUTION

The proposed solution involves implementing algorithms to analyze and compare movie ratings across different platforms, with a focus on Fandango. Transparency measures will be developed to enhance the visibility of rating calculation methodologies and incorporate user feedback mechanisms. Additionally, accuracy enhancement strategies such as algorithm adjustments and data validation processes will be implemented to mitigate rating inflation and improve the reliability of Fandango's rating system.

SYSTEM APPROACH

System Requirements:

Hardware:

Standard PC or laptop with sufficient processing power and storage capacity.

Software:

Python programming language (version 3.x), Jupyter Notebook for code development and documentation.

Library Requirements:

Data Processing & Analysis:

pandas for data manipulation, NumPy for numerical operations, scikit-learn for machine learning algorithms.

Data Visualization:

Matplotlib and Seaborn for static visualizations, Plotly or Bokeh for interactive visualizations.

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ALGORITHM & DEPLOYMENT

Algorithm Selection:

Data Exploration:

Explore the dataset to understand its structure, distributions, and relationships between variables.

Problem Formation:

Define the problem statement, objectives, and evaluation metrics for model performance.

Algorithm Selection:

Choose appropriate algorithms based on the nature of the problem (e.g., regression, classification).

ALGORITHM & DEPLOYMENT

Data Input:

Data Collection:

Gather movie rating data from various platforms using web scraping or API calls.

Data Cleaning:

Handle missing values, outliers, and inconsistencies in the dataset.

Feature Engineering:

Create new features or transform existing ones to improve model performance.

ALGORITHM & DEPLOYMENT

Training Process:

Data Splitting:

Divide the dataset into training and testing sets for model validation.

Feature Scaling:

Normalize or standardize features to ensure consistent scaling across variables.

Model Training:

Train machine learning models using the training dataset.

Model Evaluation:

Evaluate model performance using appropriate evaluation metrics and cross-validation techniques.

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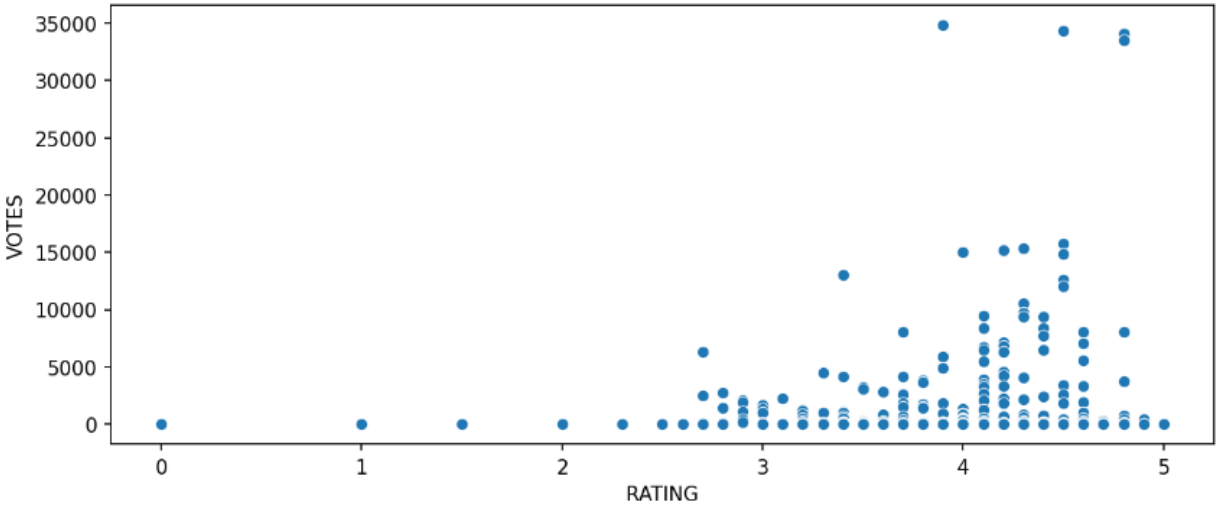
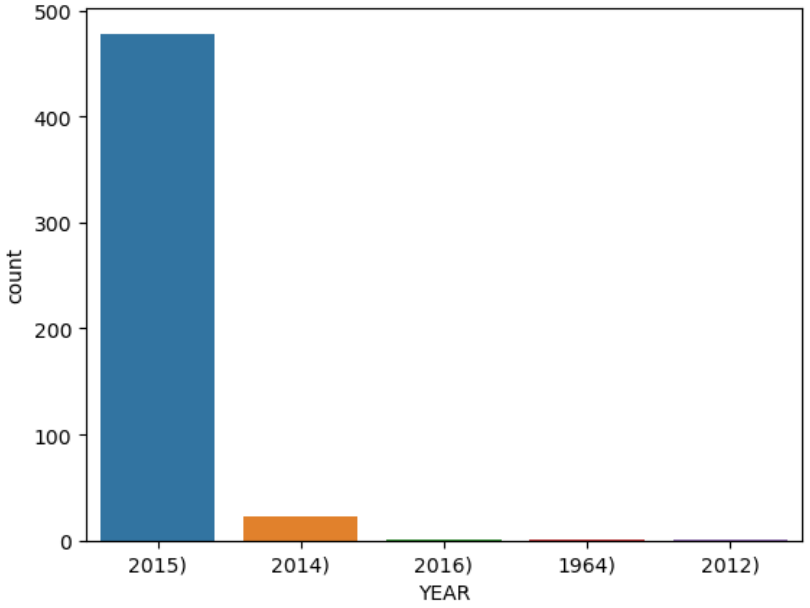
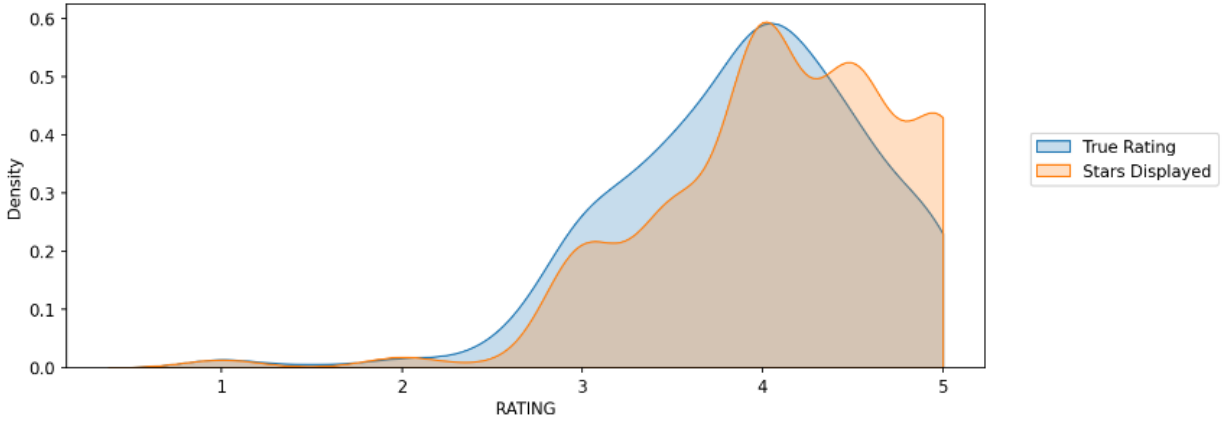
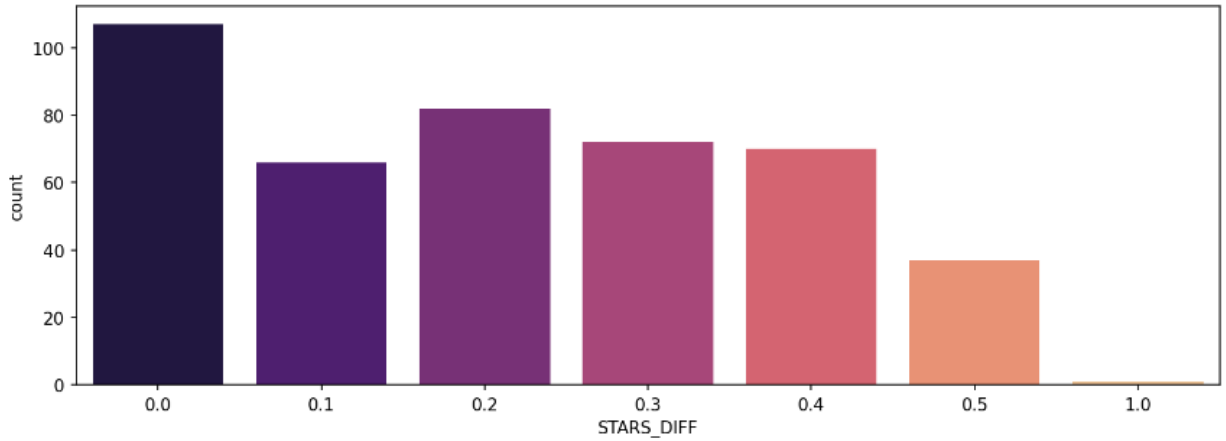
RESULT









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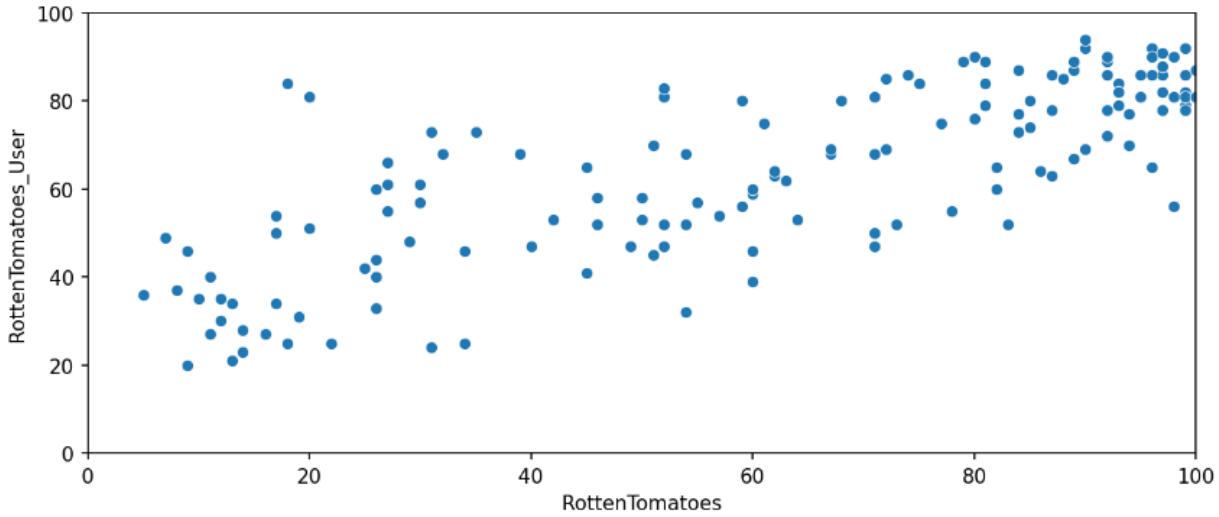
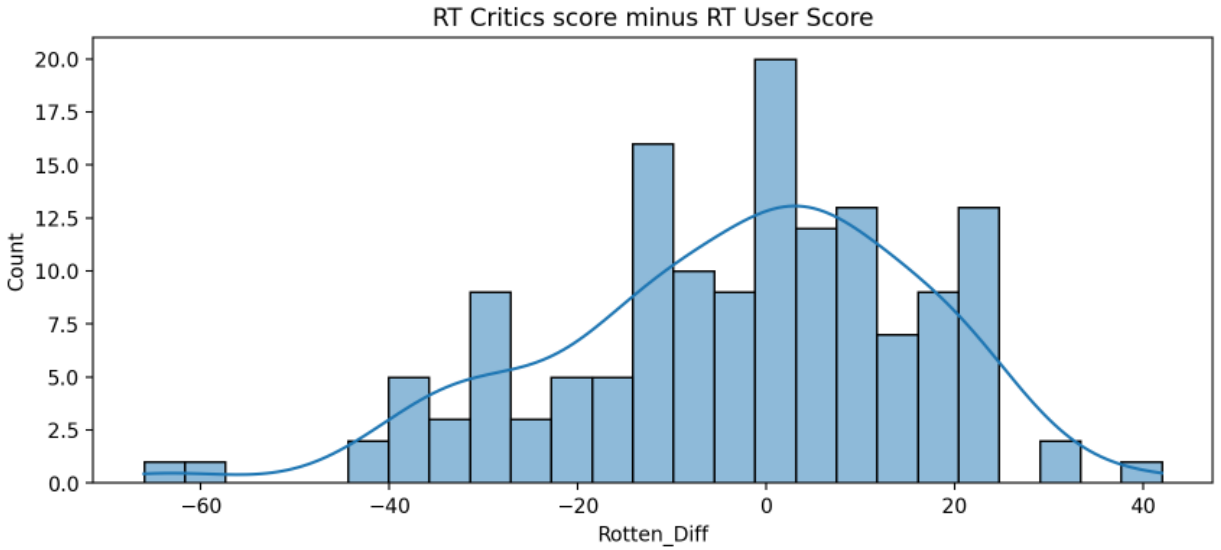
RESULT





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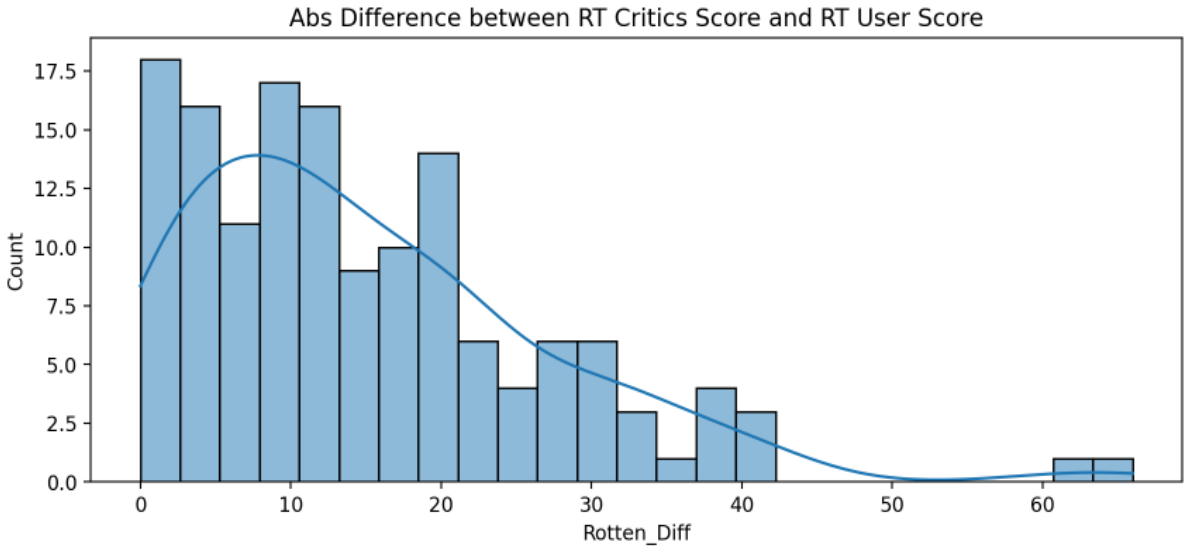

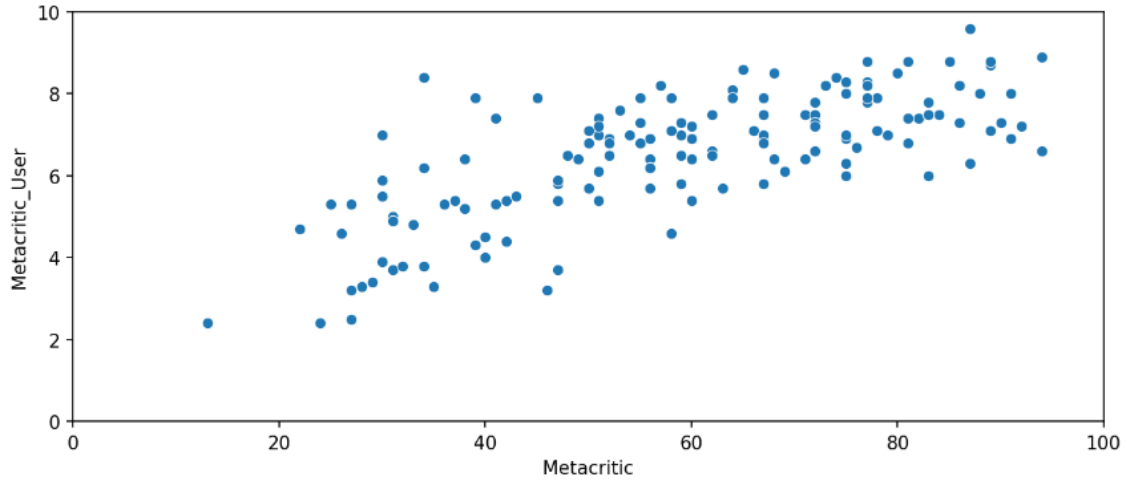

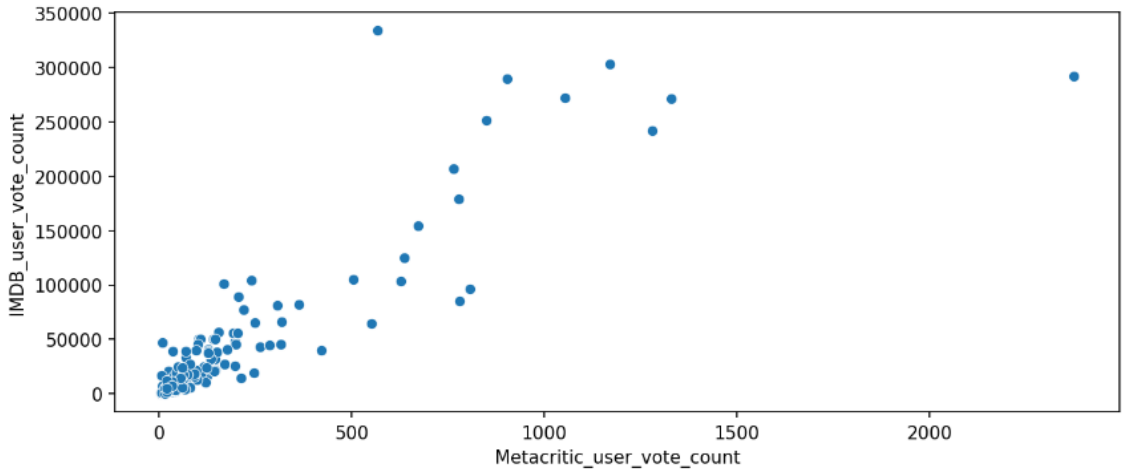

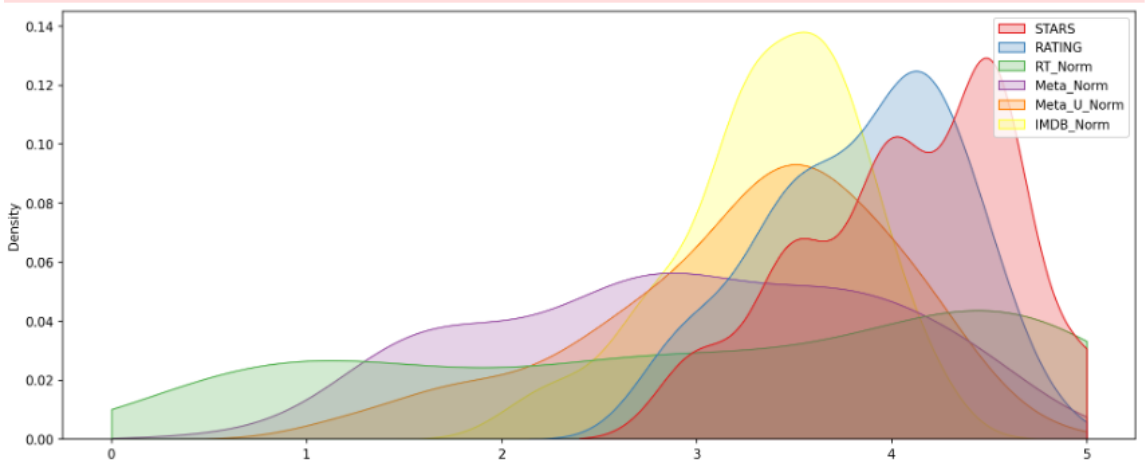

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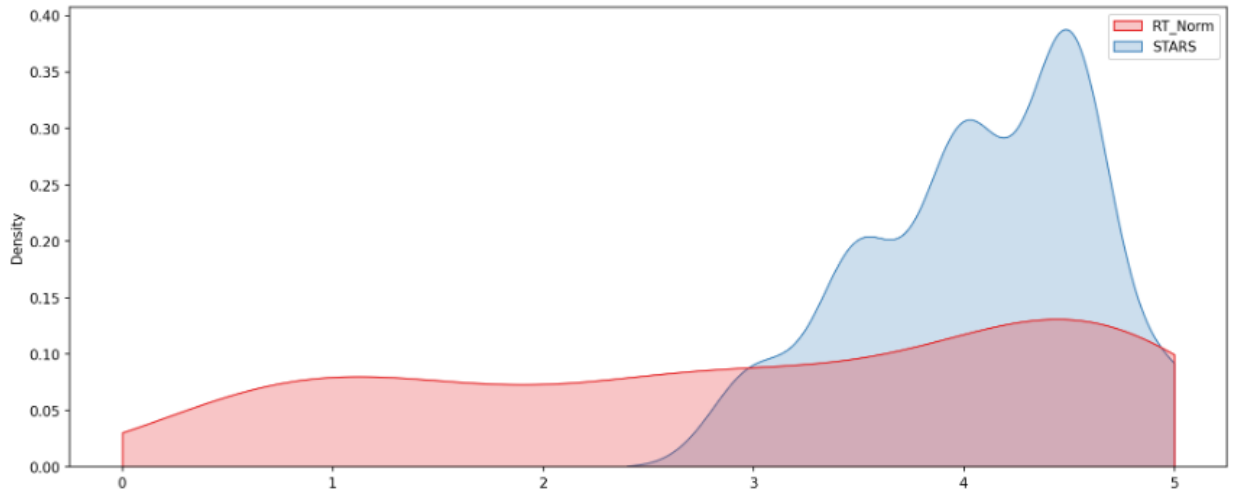

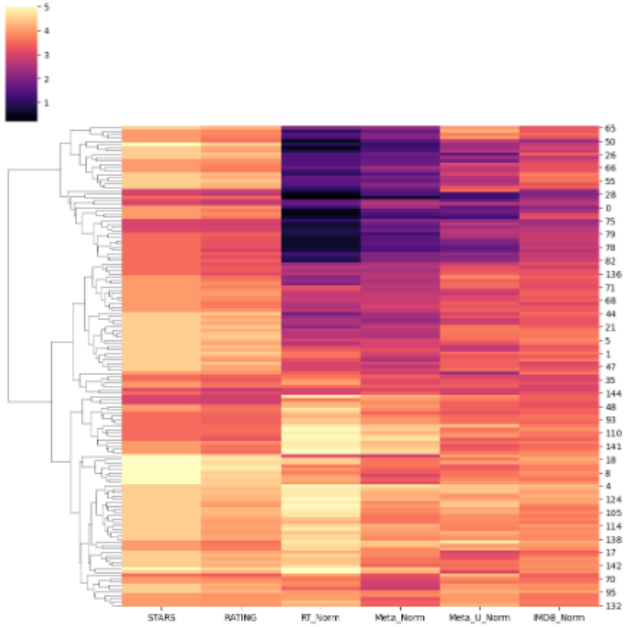

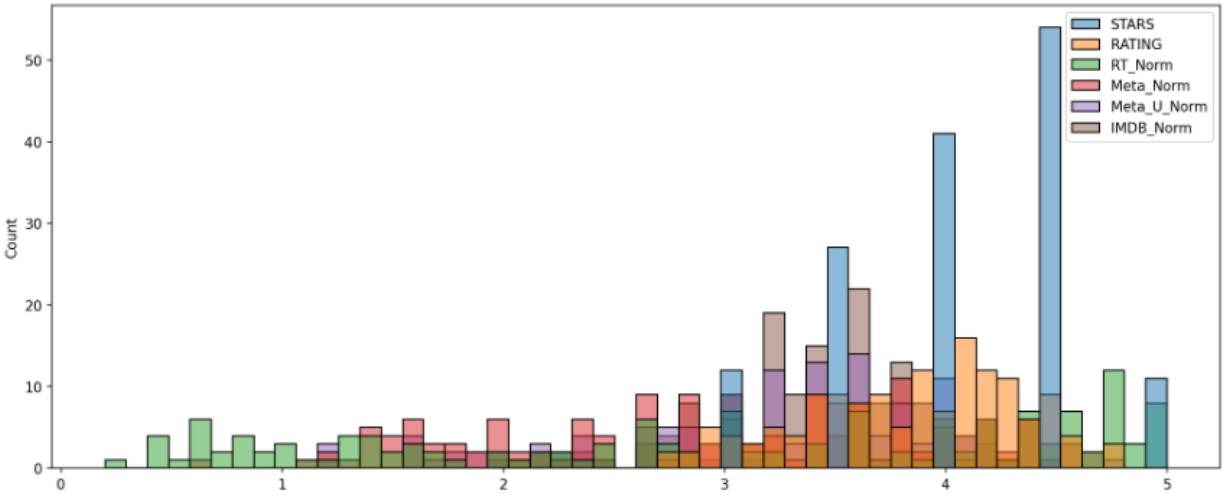

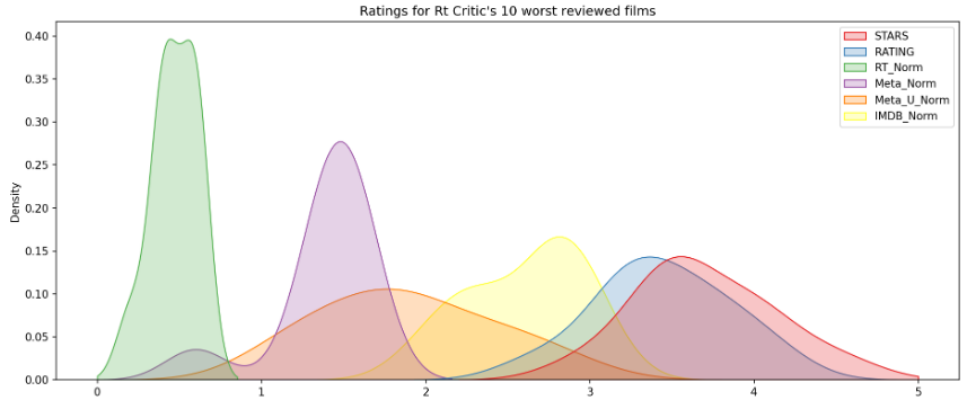

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CONCLUSION

In conclusion, the Fandango Movie Rating Discrepancy Analysis project sheds light on the challenges faced by Fandango in maintaining accurate and transparent movie ratings. The findings underscore the importance of addressing rating inflation to ensure consumer trust and industry integrity. While the proposed solutions show promise in mitigating rating disparities, ongoing monitoring and adaptation will be essential to maintain the effectiveness of the rating system.

FUTURE SCOPE

- Explore real-time prediction capabilities to provide up-to-date movie ratings to users.
- Implement personalization and customization features to tailor movie recommendations based on individual preferences and viewing history.
- Investigate the integration of machine learning models for dynamic rating adjustments based on user feedback and evolving trends in the movie industry.

REFERENCES

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- https://pandas.pydata.org/pandas-docs/stable/user_guide/index.html
- https://seaborn.pydata.org/
- https://matplotlib.org/stable/contents.html

THANK YOU

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