Movie Recommendations Sytem

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Introduction

In the digital era of abundant streaming content, recommendation systems serve as virtual curators, helping users discover personalized movie suggestions aligned with their preferences. These systems, akin to knowledgeable friends, analyze viewing history to offer tailored film recommendations, enhancing the entertainment experience by saving time and uncovering hidden gems."

Problem Statement

Our aim is to create a movie recommendation system that elevates your streaming journey. Picture it as your personal movie expert, learning your preferences from your past ratings and carefully selecting the top 5 movie recommendations tailored to you. Think of it as having a film-loving friend who consistently suggests the perfect movies, including those hidden gems you might have missed. It's all about enhancing your movie nights and making them truly enjoyable."

Objectives

Main Objective:

Create an efficient movie recommendation system that enriches user satisfaction and engagement.

Specific Objectives :

1. Personalization: Construct recommendation algorithms that deliver deeply personalized movie recommendations, taking into account individual user preferences and their unique viewing history.
2. Popularity-Based Recommendations: Integrate a baseline popularity-based recommender as an additional feature to highlight universally acclaimed movies, especially in cases where personalized data is insufficient.

Research Questions

1. Impact of Personalization: How does tailoring movie recommendations to individual preferences affect user satisfaction and movie consumption?
2. Algorithm Performance: What are the variations in predictive accuracy between collaborative filtering methods like SVD and basic models when it comes to understanding user movie preferences?

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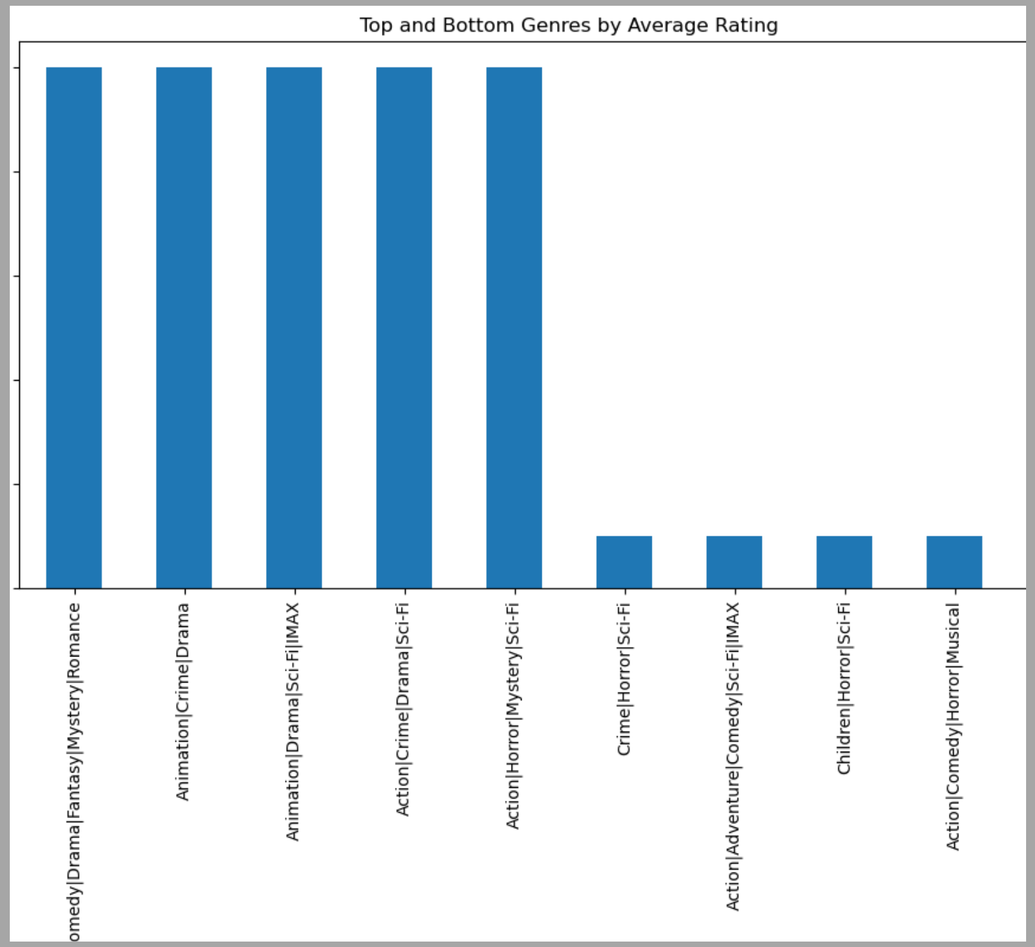

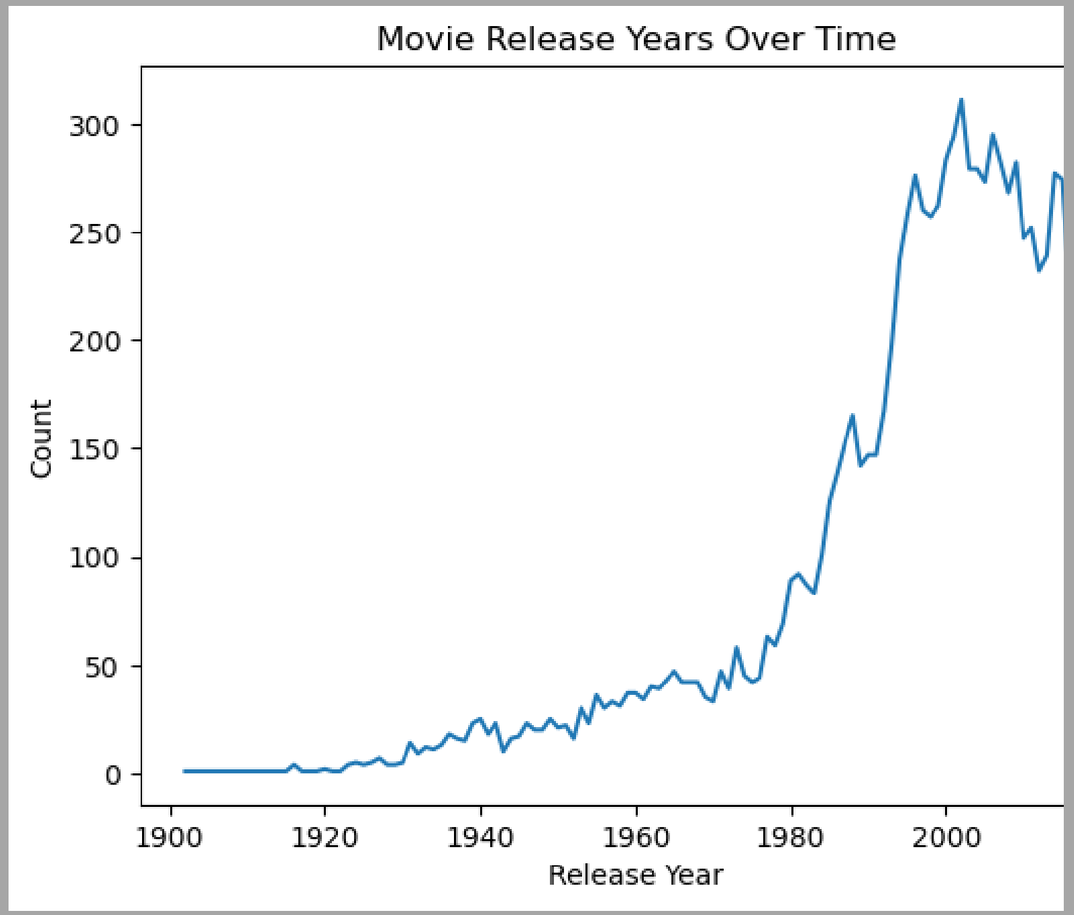

Recommendations

- Your Personalized Recommendations: If you want to suggest movies that people will love, go for models like SVD.
- Popular Picks: It's also a good idea to suggest popular movies that most people like. Even if we don't know much about a user, these can be safe bets.
- Checking Quality: Make sure the movie data is fresh and accurate. More data and better data quality mean better suggestions.