**RELATED WORK OF WATCHWISE-AI**

Recommendation systems have been widely researched and developed over the years, especially in the entertainment industry. Major platforms like Netflix, Amazon Prime, and IMDb use recommendation systems to suggest movies and TV shows to users. Traditional methods such as **Content-Based Filtering** recommend movies similar to those a user has liked based on features like genre, director, or cast. On the other hand, **Collaborative Filtering** uses the preferences of similar users to make recommendations.

Research papers and projects such as the Netflix Prize (2006) showcased the importance of improving collaborative filtering techniques for better personalization. Libraries like **Surprise** have been developed to make building collaborative filtering models easier. Additionally, hybrid approaches combining both content and collaborative filtering have proven to be more effective in real-world systems.

This project draws inspiration from these existing techniques and implements content-based filtering (using cosine similarity), collaborative filtering (using SVD and KNN), and popularity-based recommendations to provide accurate and personalized movie suggestions.

 **Netflix Prize** announcement:  
<https://www.netflixprize.com/>

 **MovieLens Dataset**:  
https://grouplens.org/datasets/movielens/

 **Survey Paper on Collaborative Filtering** (IEEE):  
<https://ieeexplore.ieee.org/document/4781121>

 **Surprise library documentation**:  
<https://surprise.readthedocs.io/en/stable/>