

Movie Recommendation System

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1 Introduction

In today's world, there are lots of movies available online, making it hard to find ones you'll like. Our team wants to make it easier by improving a system that suggests movies based on what you enjoy. This system uses special computer programs to guess what you might like, just like when YouTube suggests videos or when Netflix recommends shows. Big companies use these systems a lot to keep their customers happy and their businesses successful.

2 Project Overview

We have chosen a Movie Recommendation System project sourced from Kaggle as the foundation for our work. This project offers a solid framework upon which we can build and expand, integrating additional features, services, and algorithms to enrich the recommendation process.

3 Project Members

Fayaz Noor (22P-9012)

Muhammad Hussain (22P-9270)

Muhammad Huzefa (22P-9267)

Ibrahim Aslam (22P-9275)

Kashif Khan (22P-9005)

Aashir Shehzad (22P-9268)

Saad Khan (22P-9007)

Sami ur Rehman (22P-9006)

Alamzeb (22P-9266)

Muhammad Afnan (22P-9256)

4 Project Division

Our team of 10 members is divided into three teams and managed by one Project Manager:

1. **AI Model Training (4 members):** This group will focus on developing and fine-tuning the machine learning models responsible for generating movie recommendations. They will explore various algorithms, including collaborative filtering, content-based filtering, and hybrid approaches, to optimize recommendation accuracy and diversity.
Members: Fayaz Noor, Kashif Khan, Aashir Shehzad, Saad Khan
2. **Web Page Development (3 members):** This team will be responsible for designing and developing the user interface for our Movie Recommendation System. They will create an intuitive and user-friendly web platform where users can input their preferences, receive personalized recommendations, and explore movie details.
Members: Muhammad Hussain, Sami ur Rehman, Alamzeb
3. **Documentation (2 members):** This pair of people will handle the documentation aspect of the project, including project planning, progress reports, and user manuals. They will ensure that all project activities are well-documented and easily accessible for future reference.
Members: Muhammad Afnan, Huzefa
4. **Project Manager (1 member):** The Project Manager will oversee the entire project, coordinating the efforts of the three groups, managing timelines and resources, and ensuring that project objectives are met successfully.
Project Manager: Ibrahim

5 Project Objectives

Enhance the existing Movie Recommendation System by incorporating advanced AI techniques.

Develop and fine-tune machine learning models to improve recommendation accuracy and diversity.

Design and implement a user-friendly web interface for seamless interaction with the recommendation system.

Document all project activities and deliverables comprehensively for future reference and replication.

6 Project Timeline

Week 1-2: Project planning, team formation, and initial research.

Week 3-6: AI model training and experimentation.

Week 7-9: Web page development and integration with AI models.

Week 10-12: Documentation, testing, and finalization of project deliverables.

7 Expected Product

Our project will result in a great Movie Recommendation System. It will suggest movies you'll love, using smart technology. You'll find it easy to use on the web. We'll also give you clear instructions on how to use it.

8 Conclusion

Our team is excited about the opportunity to enhance the Movie Recommendation System and deliver a valuable solution to users seeking personalized movie recommendations. With a dedicated team and clear project objectives, we are confident in our ability to successfully execute this project and achieve our goals. Thank you for considering our proposal. We look forward to the opportunity to bring this project to fruition and make a meaningful contribution to the field of AI-powered recommendation systems.