**MOVIE RECOMMENDATION SYSTEM**

**(Using Machine Learning in Python)**

****

**Under the guidance of**

**Mr. Sakya Sarkar**

**[Lecturer, Department of Computer Science and Technology]**

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**(Using Machine Learning in Python)**

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**Under the guidance of**

**Mr. Sakya Sarkar**

**[Lecturer, Department of Computer Science and Technology]**

**MOVIE RECOMMENDATION SYSTEM**

**(Using Machine Learning in Python)**

**In Association with**

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* **TITLE OF PROJECT: MOVIE RECOMMENDATION SYSTEM**
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* **PROJECT VISION CONTROL HISTORY**

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The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

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**DECLERATION**

We, the students of Computer Science and Technology, Asansol Institute of Engineering and Management – Polytechnic, Asansol declare that the work entitled "**MOVIE RECOMMENDATION SYSTEM**" has been successfully completed under the guidance of **Mr. Sakya Sarkar [Lecturer, Department of Computer Science and Technology]**, Computer Science and Technology Department, Asansol Institute of Engineering and Management – Polytechnic, Asansol. This dissertation work is submitted in partial fulfilment of the requirements for the award of Degree of Diploma of Engineering in Computer Science and Technology during the academic year 2019 - 2022.

Further the matter embodied in the project report has not been submitted previously by anybody for the award of any degree or diploma to any university.

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**ABSTRACT**

In this hustling world, entertainment is a necessity for each one of us to refresh our mood and energy. Entertainment regains our confidence for work and we can work more enthusiastically. For revitalizing ourselves, we can listen to our preferred music or can watch movies of our choice. For watching favourable movies online, we can utilize movie recommendation systems, which are more reliable, since searching of preferred movies will require more and more time which one cannot afford to waste. In this paper, to improve the quality of a movie recommendation system, a Hybrid approach by combining content based filtering and collaborative filtering, using Support Vector Machine as a classifier and genetic algorithm is presented in the proposed methodology and comparative results have been shown which depicts that the proposed approach shows an improvement in the accuracy, quality and scalability of the movie recommendation system than the pure approaches in three different datasets. Hybrid approach helps to get the advantages from both the approaches as well as tries to eliminate the drawbacks of both methods.

This paper introduces content-based recommender system for the movie website. There are a lot of features extracted from the movie, they are diversity and unique, which is also the difference from other recommender systems. We use these features to construct movie model and calculate similarity. We introduce a new approach for setting weight of features, which improves the representative of movies. Finally, we evaluate the approach to illustrate the improvement.

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