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**Green University of Bangladesh**

**Department of Computer Science and Engineering (CSE)**

**Faculty of Sciences and Engineering**

**Semester: ( Spring-2023, Year:2023-24 ), B.Sc. in CSE (Eve)**

**LAB PROJECT PROPOSAL**

**Course Title: Artificial Intelligence Lab**

**Course Code: :** CSE-316 Section: 2012-EB

**Student Details**

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**Submission Date : 03/11/2023**

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**[For Teachers use only: Don’t Write Anything inside this box]**

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| **Project Proposal Status**  **Marks: ………………………………… Signature: .....................**  **Comments: .............................................. Date: ..............................** |

1. **TITLE OF THE PROJECT PROPOSAL:**

* **Content Based Movie Recommendation System.**

1. **PROBLEM DOMAIN & MOTIVATIONS:**

Our project entitled “Content Based Movie Recommendation System” aims to suggest or recommend the various users, the movie they might like, by intake of their ratings, genres and similarities. The system proposed is a kind of content based filtering system which finally recommends the likable movie to the users using cosine similarity algorithm. This will extract vital information and recommend the users according to user’s preferences, interest, or history about movies. Our system is to use dataset which are to be thoroughly filtered in order to gain user’s idea for movies. This system is to be implemented with machine learning by python. This filtering method matches content resources to user characteristics, base their predictions on user’s information. It relies heavily on the ratings of different users.

1. **OBJECTIVES/AIMS:**

Recommender systems are information filtering tools that aspire to predict the rating for users and items, predominantly from big data to recommend their likes. Movie recommendation systems provide a mechanism to assist users in classifying users with similar interests. The purpose of a recommendation system basically is to search for content that would be interesting to an individual. Moreover, it involves a number of factors to create personalized lists of useful and interesting content specific to each user/individual.

The Objectives of the project is: -

* Recommend movie to the user
* Saving time of the user
* A report summarizing exploratory analysis results, recommendation algorithms used and predicted user-movie rating
* Influencing usage pattern in users.

**4.Project Planning:**

1.Data Collection 2.Programming Language 3.Data Preprocessing 4.Feature Extraction 5.User Profile Creation 6.Similarity Calculation 7.Evaluation 8.Model Improvement 9.Deployment.

**5.Project Features:**

1.User Profile Creation 2.Movie Feature Extraction 3.Similarity Calculation 4.Search Functionality 5.User History Tracking 6.combined features.

**6.TOOLS & TECHNOLOGIES:**

The tools and technologies we use in this project is :-.

* Google Colab
* Machine lerning
* Python Code
* Dataset

**7.CONCLUSION:**

It is beyond doubt that the further development potential of this recommender system is great and by seizing this opportunity, when it will be completed and released, it could play a considerable role in the future.