

Movie Recommender Systems

A thesis submitted in partial fulfillment of the requirements for
the award of the degree of

B.Tech

in

Computer Science and Engineering

By

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Computer Science and Engineering
GOVERNMENT COLLEGE OF ENGINEERING AND LEATHER
TECHNOLOGY (Affiliated To MAKAUT)
SALLAKE SECTOR III – 700096

JAN 2022

In memory of

Dr. A. P. J. Abdul Kalam "Missile Man"

Former President of India

BONAFIDE CERTIFICATE

This is to certify that the project titled **Movie Recommender Systems** is a bonafide record of the work done by

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in partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology in Computer Science and Engineering** of the **GOVERNMENT COLLEGE OF ENGINEERING AND TECHNOLOGY, KOLKATA**, during the year 2021-22.

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Guide

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CHAPTER 1

INTRODUCTION

1.1 RECOMMENDER SYSTEM

Government College of Engineering and Leather Technology y [1]

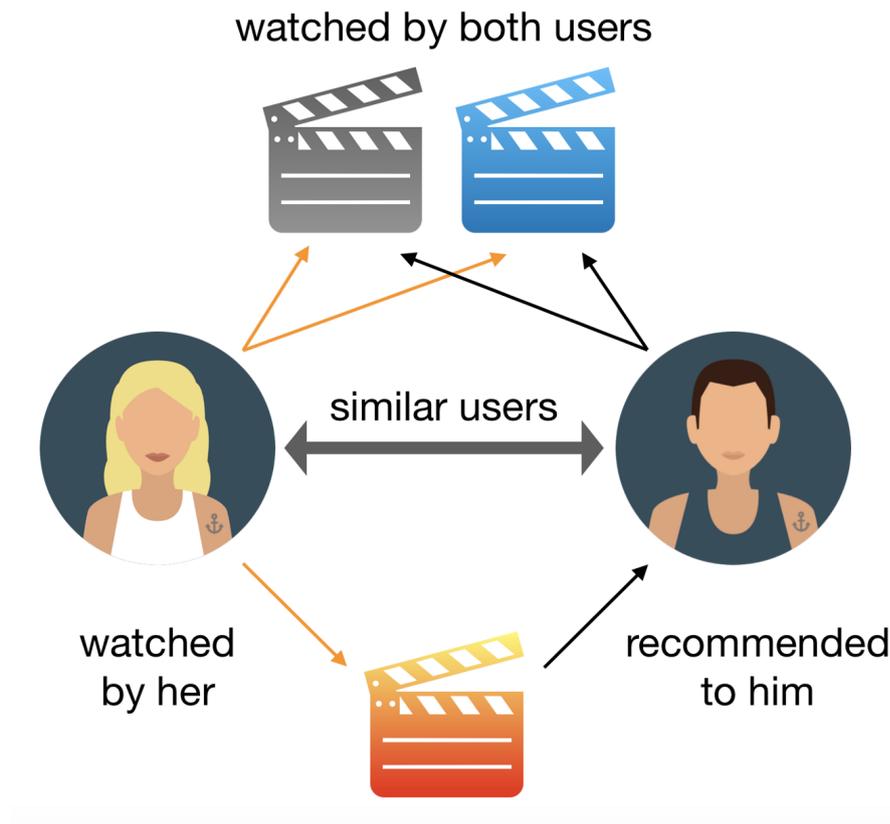


Figure 1.1: Movie Recommender system[]

CHAPTER 2

METHODOLOGY

2.1 DATA PREPROCESSING

Data preprocessing is a process of preparing the raw data and making it suitable for a machine learning model. It is the first and crucial step while creating a machine learning model. When creating a machine learning project, it is not always a case that we come across the clean and formatted data. And while doing any operation with data, it is mandatory to clean it and put in a formatted way. So for this, we use data preprocessing task. A real-world data generally contains noises, missing values, and maybe in an unusable format which cannot be directly used for machine learning models. Data preprocessing is required tasks for cleaning the data and making it suitable for a machine learning model which also increases the accuracy and efficiency of a machine learning model. It involves below steps:

1. Getting the dataset
2. Importing libraries
3. Importing datasets
4. Finding Missing Data
5. Encoding Categorical Data
6. Splitting dataset into training and test set
7. Feature scaling

APPENDIX A

CODE ATTACHMENTS

A.1 MOVIE RECOMMENDER SYSTEM

```
1 """Movie_Recomend.ipynb
2 Government College of Engineering and Leather Technology Government
   College of Engineering and Leather Technology
3 Government College of Engineering and Leather Technology
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29 Government College of Engineering and Leather Technology
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- [1] Long-Sheng Chen, Fei-Hao Hsu, Mu-Chen Chen, and Yuan-Chia Hsu. “Developing recommender systems with the consideration of product profitability for sellers”. In: *Information Sciences* 178.4 (2008), pp. 1032–1048.