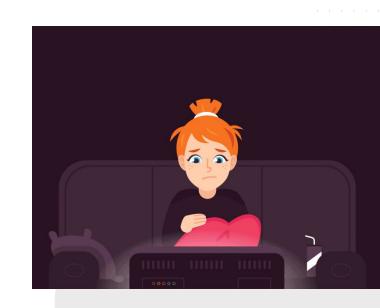


+ + + + + + + +

INTRODUCTION

+ + + + + + + +

A movie recommendation is important in our social life due to its strength in providing enhanced entertainment.



Motivation

A movie recommendation is important in our social life due to its strength in providing enhanced entertainment.



Problem Definition

There are systems which deal with the self-recommendation rather than considering the likes and dislikes of users, we thereby build a system that intakes the users wishes and then recommends a watch-list of movies which is based on their selected genre.

Objective, Solution and Project Output

- Improve retention
- Caters to the user's preferences and keeps them hooked to the application.
- Increase sales
- Can improve business by a great margin by giving various recommendations of
- different items.
- Form habits
- Influencing usage patterns in users.
- Accelerate work
- Helps the analysts for further research and reduces their work

Conflicting Requirement

when a single item is represented with two or more different names or listings of items having similar meanings; in such conditions, the recommendation system can't recognize whether the terms show various items or the same item

Impact on Society

The aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the user to use the system efficiently. The user must not feel threatened by the system, instead must accept it as a necessity. The level of acceptance by the users solely depends on the methods that are employed to educate

the user about the system and to make him familiar with it

Critical Challenges

Based on user surveys and evaluations, recommendation systems can be characterized into two parts-

be

01 Content-based recommendation system

+ + + + + +

O2 Collaborative filtering recommendation system :::

Critical Challenges

Cold start

new items are added to the system, a new item can't recommend to users initially

02 Sparsity

finding a set of users with similar ratings or interest

03 Scalability

One biggest issue is the scalability of algorithms having real-world datasets under the recommendation system

Synonymy

Synonymy arises when a single item is represented with two or more different names or listings of items having similar meaning + +

Critical Challenges

04 Privacy

Generally, an individual needs to feed his persona information to the recommendation system

07 Latency

only already existing products are recommended to users as newly added products are not rated yet.



How As are addressed through the project

	As +	+ + Attribute	How As are addressed through the project
	A1+	Range of Resources	In development stage, the project requires the use of diverse resources including different type of material: Movie dataset Information's: Movie metadata, Movie knowledge Technologies: machine learning(ML) model for supervised, People: Developers. Designer, Analyzer
	A2	Level of Interaction	A better interaction is required among the researchers and developers (student), Viewers and participants (system users).
A3 Innovation A degree of innovation is required to develop the machin learning model using the available data set.		Innovation	A degree of innovation is required to develop the machine-learning based supervised learning model using the available data set.
	A4	Consequences for society and the	Because of this, our viewers are going to have a more convenient platform. Even in the condition of having physical distance, people can choose their desired movie without wasting time and follow the updated trend.

viewing rating and so on analysis of participants.

The project deals with a recommendation system based on users searching, watching,

environment

Familiarity

A5

How Ps are addressed through the project

Ps0 Attribute P1 + Depth of Knowledge Requirement The project requires study of research on Machine Learning system mainly supervised learning model, Digital data processing (K8) Data collection from user sites like online movies specially movies, series, web series, documentation film etc.(K7) Engineering design (multi-layer model design) (K5) and user interface development (K6) knowledge of software engineering and data pre-processing (feature extension), various algorithms (K3, K4, k2). P2 Range of Conflicting Requirement Create an appropriate machine-learning model to detect a movie from similar type movies. P3 Depth of Analysis Required Use supervised machine learning model, a type of machine learning model instead of tensor-flow or other API based movie detection algorithm.		Trow is are addressed through the project			
Requirement model, Digital data processing (K8) Data collection from user sites like online movies specially movies, series, web series, documentation film etc.(K7) Engineering design (multi-layer model design) (K5) and user interface development (K6) knowledge of software engineering and data pre-processing (feature extension), various algorithms (K3, K4, k2). P2 Range of Conflicting Requirement Create an appropriate machine-learning model to detect a movie from similar type movies. Depth of Analysis Use supervised machine learning model, a type of machine learning model instead of tensor-flow	Ps0	Attribute + +	How Ps are addressed through the project	• • • • •	
Conflicting Requirement Depth of Analysis Use supervised machine learning model, a type of machine learning model instead of tensor-flow	P1 +		model, Digital data processing (K8) Data collection from user sites like online movies specially movies, series, web series, documentation film etc.(K7) Engineering design (multi-layer model design) (K5) and user interface development (K6) knowledge of software engineering and data pre-processing (feature extension), various	rning	
	P2	Conflicting	Create an appropriate machine-learning model to detect a movie from similar type movies.		
	P3		· · · · · · · · · · · · · · · · · · ·	or-flow	
P4 Familiarity of Issues Based on searching detection, choice of genre related online result, decision or movie tag.	P4	Familiarity of Issues	Based on searching detection, choice of genre related online result, decision or movie tag.		
P5 Extent of applicable codes Using Yolov4 supervised learning model and other industrial standard library functions, build the proper solution model and user interface with data synchronization of the proposed system.	P5				
P7 Interdependence Creating model (algorithmic part), classify data characteristic, proposed user application interface.	P7	Interdependence	Creating model (algorithmic part), classify data characteristic, proposed user application in	terface.	

+	+ CO Statements	Corresponding POs (Appendix-1)
•	Identify a real-life problem (Recommendation System) that	12
	can be translated to an engineering and/or computing solution through design, development and validation	

CO-PO mapping for this project

CO₂ 1,2 Identify outcomes and functional requirements of the proposed solution (Movie Recommendation System) considering web based and/or hardware specification and standards 11

6,8

CO₃ Identify sub components of a complex problem, prepare timeline and appropriate budget using the project

management skill CO₄ Identify and validate the impact of environmental

considerations and the sustainability of a system/subsystem

of a complete project

CO₅ Assess professional, ethical, and social impacts and responsibilities of the design project



++		
CO No.	CO Statements	Corresponding POs (Appendix-1)
CO6	Function effectively in a multi-disciplinary team	9
CO7	Analyze, design, build, and evaluate engineering/computing system/subsystem with given specifications and requirements	3,4,5
CO8	Present design project results through oral presentations	7

No	РО	Differentiating Characteristic
1 + +	Engineering Knowledge	Breadth and depth of education and type of knowledge, both theoretical and practical
2 + +	Problem Analysis	Complexity of analysis
3	Design/ development of solutions	Breadth and uniqueness of engineering problems i.e. the extent to which problems are original and to which solutions have previously been identified or codified
4	Investigation	Breadth and depth of investigation and experimentation
5	Modern Tool Usage	Level of understanding of the appropriateness of the tool
6	The Engineer and Society	Level of knowledge and responsibility
7	Environment and Sustainability	Type of solutions.
8	Ethics	Understanding and level of practice
9	Individual and Team work	Role in and diversity of team
10	Communication	Level of communication according to type of activities performed
11	Project Management and Finance	Level of management required for differing types of activity
12	Lifelong learning	Preparation for and depth of Continuing learning.

Project management (Time-Table)

+	Lab	Working Progress
+ +	+ Lab 1	Introduction
Τ.	Lab 2	Project Proposal Permission
	Lab 3	Project Proposal Permission
	Lab 4	Planning and Requirement Analysis
	Lab 5	Requirement Analysis and data collecting
	Lab 6	UI/Ux Planning
	Lab 7	Data pre-processing
	Lab 8	Data pre-processing
	Lab 9	Model Building
	Lab 10	Model Building
	Lab 11	Model Building
	Lab 12	Connect with Web
	Lab 13	Deployment
	Lab 14	Final Presentation and Submission

THANKS





