NS Winter24 Mini-Projects Approved

Fill out the form with the proposed project idea and team details. Deadline: Tomorrow, 20 April 2024. **Important: To be submitted by only one of the members of the proposed team. No duplicates, please.**

aniket21377@iiitd.ac.in Switch account   ☁ Draft saved

* Indicates required question

Email *

☑ Record **aniket21377@iiitd.ac.in** as the email to be included with my response

Project Title *

Movie Rating and Genre Prediction using network science assisted by machine learning

Brief Description + Deliverables *

Our topic :-
Movie Rating and Genre Prediction using network science assisted by machine learning
Dataset To be Used:-
IMDB Dataset consisting 25,000 rows
Parameters:-
IMDB_id,title, runtime budget,revenue, popularity,notes,nb_notes,bechdel(female actress consideration),rating,Categories(genre), isAdult
Exploratory Data Analysis-
Descriptive statistics
Num of nodes(movies)
Num of edges(genres)
Average degree
Degree Distribution
Centrality measures
Visualization of Network
Clustering coefficient Distribution
Highest degree nodes

Genre Prediction using various machine learning models-
We will use various ML models like K-Means clustering,Gaussian Mixture Model to work on our model of networks based on sub network clusters to help us predict genres through our data.

Movie Rating Prediction using machine learning models-
We will use various supervised models like Linear Regression to construct our Predictor.

Genre Prediction using Cosine Similarity-
Here we would predict Genres of the movies without using ML models

Movie Rating Prediction using Cosine Similarity-
Here we would predict Ratings of the movies without using ML models

Team Size *

4

Name of Team Member - 1 *

Aniket Kanojia

Roll Number of Team Member - 1 *

2021377

Skill-set of Team Member - 1 *

Python,c++,machine learing

Name of Team Member - 2 *

Himanshu Choudhary

Roll Number of Team Member - 2 *

2021391

Skill-set of Team Member - 2 *

Python,java,c++,c,backend developer

Name of Team Member - 3 *

Kartik Bansal

Roll Number of Team Member - 3 *

2021394

Skill-set of Team Member - 3 *

Python,java,c++,c,frontend developer

Name of Team Member - 4 *

Divyam Khorwal

Roll Number of Team Member - 4 *

2021388

Skill-set of Team Member - 4 *

Python,java,frontend developer

Other relevant information, if any. *

NA

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