

# MAULANA AZAD NATIONAL URDU UNIVERSITY

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# MOVIE RECOMMENDER SYSTEM

FINAL PROJECT

# ABOUT THE RECOMMENDER SYSTEM

Because you are asking for a movie OR movie title relating to any genre (humour, sci-fi, adventure...), it figures out and predicts based on your choice that you may enjoy.

# FILTRATION TECHNIQUE

## Content filtering

We use this by using the data provided by the users about what content they are looking for and based on them what can be the another great title.

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# Movie Recommender System

How would you like to be contacted?

Avatar

Recommend

Made with Streamlit

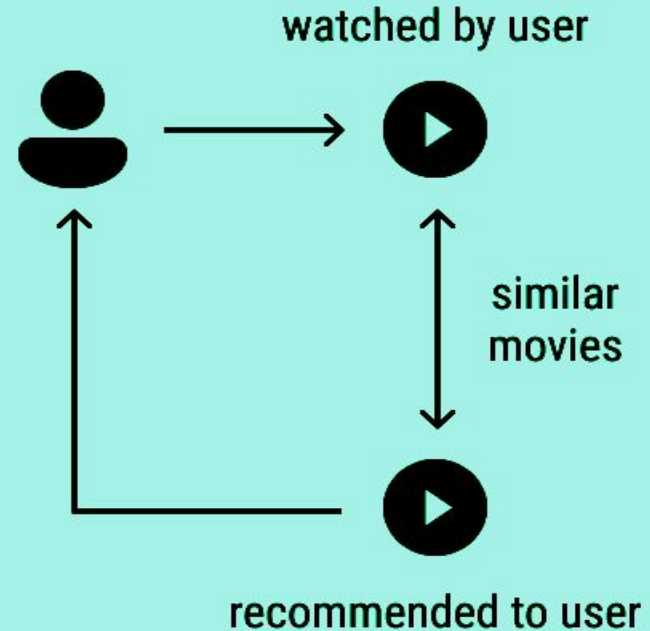
Analyzes the preferences of users and then it uses the information to try and find different similar contents.

And this information is available in the database.

Which said, the data of only one user is required to make the predictions.

## HOW DOES IT WORK

### Content-Based Filtering



You are signed in as A180

Movie Recommendation

Movie Recommendation

app - Streamlit

New Tab

localhost:8888/notebooks/Movie%20Recommendation%20System/%20Movie%20Recommendation%20System.ipynb

GmailYouTubeMapsFacebook - log in o...Direct • Instagramgoogle classroomCodechefOnline Courses - A...HackerrankGreeks for Greeks

jupyter

Movie Recommendation System

Last Checkpoint: Last Thursday at 3:40 AM (autosaved)

Python 3

Logout

FileEditViewInsertCellKernelWidgetsHelp

1. JJ)

In [132]:

new[new['title'] == 'The Lego Movie'].index[0]

Out[132]: 744

In [133]:

def recommend(movie):  
 index = new[new['title'] == movie].index[0]  
 distances = sorted(list(enumerate(similarity[index])),reverse=True,key = lambda x: x[1])  
 for i in distances[1:6]:  
 print(new.iloc[i[0]].title)

In [134]:

recommend('Batman Begins')

The Dark Knight  
The Dark Knight Rises  
Batman  
Batman & Robin  
Batman

In [135]:

import pickle

In [136]:

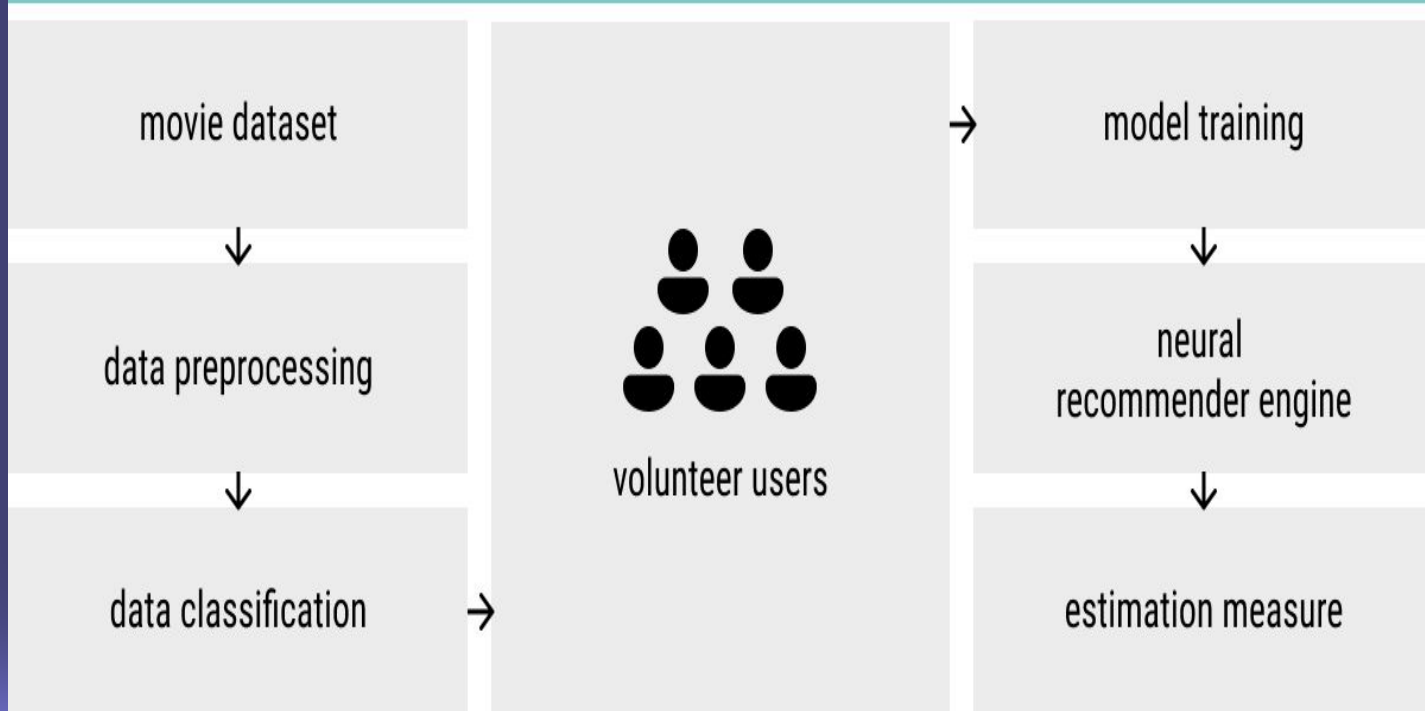
#pickle.dump(new,open('movie\_list.pkl','wb'))

Windows Taskbar

8:47 AM 7/2/2022

# NEURAL NETWORK MODEL

## A Neural Network Model for a Movie Recommendation System





# SYSTEM WORKS USING ANN

Once the neural network is created, it's the time to train the model, training the dataset and make the predictions.

**The model works consisting of the layers.**

Input: where the movies and users vectors are selected as input.

Then Embedding: contains both embedding of movies and users. Updates during the model training to get the best values as more data is added.

Output: It generates the predicted values.

How would you like to be contacted?

Spider-Man 3

Spider-Man 2

Spider-Man

## The Amazing Spice

## The Amazing Spi

## Arachnophobia



# REFERENCES

[https://labelyourdata.com/img/article-illustrations/content-based\\_vs\\_collaborative\\_light.png](https://labelyourdata.com/img/article-illustrations/content-based_vs_collaborative_light.png)

[https://cdn.vox-cdn.com/thumbor/AwKSiDyDnwy\\_qoVdLPyoRPUPo00=/39x0:3111x2048/1400x1400/filters:focal\(39x0:3111x2048\):format\(png\)/cdn.vox-cdn.com/uploads/chorus\\_image/image/49901753/netflixlogo.0.0.png](https://cdn.vox-cdn.com/thumbor/AwKSiDyDnwy_qoVdLPyoRPUPo00=/39x0:3111x2048/1400x1400/filters:focal(39x0:3111x2048):format(png)/cdn.vox-cdn.com/uploads/chorus_image/image/49901753/netflixlogo.0.0.png)

<https://labelyourdata.com/articles/movie-recommendation-with-machine-learning#:~:text=A%20movie%20recommendation%20system%2C%20or,their%20past%20choices%20and%20behavior.>

<https://www.youtube.com/watch?v=f80K1HBEgn0>

[https://www.researchgate.net/profile/Manoj-Kumar-643/publication/283042228\\_A\\_Movie\\_Recommender\\_System\\_MOVREC/links/61a0ac4407be5f31b7b82c3e/A-Movie-Recommender-System-MOVREC.pdf](https://www.researchgate.net/profile/Manoj-Kumar-643/publication/283042228_A_Movie_Recommender_System_MOVREC/links/61a0ac4407be5f31b7b82c3e/A-Movie-Recommender-System-MOVREC.pdf)