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import pandas as pd
import numpy as np
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.neighbors import KNeighborsClassifier

data = pd.read_csv('https://raw.githubusercontent.com/rashida048/Some-NLP-Projects/master/movie_dataset.csv')

genres = data['genres'].str.get_dummies(sep=',')

keywords = CountVectorizer().fit_transform(data['keywords'].fillna(''))

X = np.hstack((genres.values, keywords.toarray(), data[['budget', 'popularity', 'vote_average']].values))

model = KNeighborsClassifier(n_neighbors=10)
model.fit(X, data['title'])

▼ KNeighborsClassifier
KNeighborsClassifier(n_neighbors=10)

def recommend_movies(movie_title, k=10):
    movie_index = data[data['title'] == movie_title].index[0]
    distances, indices = model.kneighbors(X[movie_index].reshape(1, -1), n_neighbors=k+1)
    recommended_movies = data.loc[indices.flatten()[1:], 'title']
    return recommended_movies

movie = input("Movie Name: ")
recommend_movies(movie)

Movie Name: Iron Man 2
31 Iron Man 3
32 Alice in Wonderland
45 World War Z
43 Terminator Salvation
93 Terminator 3: Rise of the Machines
38 The Amazing Spider-Man 2
34 Monsters University
29 Skyfall
42 Toy Story 3
25 Titanic
Name: title, dtype: object

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