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"Recommender System is a system that seeks to predict or filter preferences according to the user's choices. Recommender systems are utilized in a variety of areas including movies, music, news, books, research articles, search queries, social tags, and products in general.\n",

"Recommender systems produce a list of recommendations in any of the two ways-\n",

"\n",

"Collaborative filtering: Collaborative filtering approaches build a model from the user's past behavior as well as similar decisions made by other users. This model is then used to predict items (or ratings for items) that users may have an interest in.\n",

"\n",

"Content-based filtering: Content-based filtering recommends items by comparing the content of items with a user's preferences.It relies on the attributes of items and the user profile, which contains preferences and past interactions. The system recommends items that are similar to those the user has liked in the past.\n",

"\n",

"\n",

"The objective of this project is to develop a movie recommendation system using Python that provides personalized movie recommendations to users based on their preferences and viewing history. By leveraging machine learning algorithms and collaborative filtering techniques, the system aims to:\n",

"\n",

"Enhance User Experience: Deliver tailored movie suggestions to users, increasing their satisfaction and engagement with the platform.\n",

"\n",

"Improve Discovery: Assist users in discovering new movies that match their tastes, which they might not have found otherwise.\n",

"\n",

"Analyze Preferences: Utilize data analysis to understand user behavior and preferences, allowing for continuous improvement of recommendation accuracy.\n",

"\n",

"Scalability: Ensure the system can handle a large and diverse dataset of movies and users, making it suitable for real-world applications.\n",

"\n",

"Let's develop a basic recommendation system by suggesting items that are most similar to a particular item, in this case, movies. It just tells what movies/items are most similar to the user's movie choice."

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"\n",

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" if (!dataTable) return;\n",

"\n",

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" 'suggestCharts', [key], {});\n",

" } catch (error) {\n",

" console.error('Error during call to suggestCharts:', error);\n",

" }\n",

" quickchartButtonEl.classList.remove('colab-df-spinner');\n",

" quickchartButtonEl.classList.add('colab-df-quickchart-complete');\n",

" }\n",

" (() => {\n",

" let quickchartButtonEl =\n",

" document.querySelector('#df-969cb238-1804-499f-bf3c-e738d187574c button');\n",

" quickchartButtonEl.style.display =\n",

" google.colab.kernel.accessAllowed ? 'block' : 'none';\n",

" })();\n",

" </script>\n",

"</div>\n",

"\n",

" </div>\n",

" </div>\n"

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" # Column Non-Null Count Dtype \n",

"--- ------ -------------- ----- \n",

" 0 Movie\_ID 4760 non-null int64 \n",

" 1 Movie\_Title 4760 non-null object \n",

" 2 Movie\_Genre 4760 non-null object \n",

" 3 Movie\_Language 4760 non-null object \n",

" 4 Movie\_Budget 4760 non-null int64 \n",

" 5 Movie\_Popularity 4760 non-null float64\n",

" 6 Movie\_Release\_Date 4760 non-null object \n",

" 7 Movie\_Revenue 4760 non-null int64 \n",

" 8 Movie\_Runtime 4758 non-null float64\n",

" 9 Movie\_Vote 4760 non-null float64\n",

" 10 Movie\_Vote\_Count 4760 non-null int64 \n",

" 11 Movie\_Homepage 1699 non-null object \n",

" 12 Movie\_Keywords 4373 non-null object \n",

" 13 Movie\_Overview 4757 non-null object \n",

" 14 Movie\_Production\_House 4760 non-null object \n",

" 15 Movie\_Production\_Country 4760 non-null object \n",

" 16 Movie\_Spoken\_Language 4760 non-null object \n",

" 17 Movie\_Tagline 3942 non-null object \n",

" 18 Movie\_Cast 4733 non-null object \n",

" 19 Movie\_Crew 4760 non-null object \n",

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"memory usage: 781.1+ KB\n"

]

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]

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"count 4760.000000 4.760000e+03 4760.000000 4.760000e+03 \n",

"mean 2382.566387 2.920129e+07 21.599510 8.263743e+07 \n",

"std 1377.270159 4.075620e+07 31.887919 1.630554e+08 \n",

"min 1.000000 0.000000e+00 0.000372 0.000000e+00 \n",

"25% 1190.750000 9.257500e+05 4.807074 0.000000e+00 \n",

"50% 2380.500000 1.500000e+07 13.119058 1.944716e+07 \n",

"75% 3572.250000 4.000000e+07 28.411929 9.341276e+07 \n",

"max 4788.000000 3.800000e+08 875.581305 2.787965e+09 \n",

"\n",

" Movie\_Runtime Movie\_Vote Movie\_Vote\_Count \n",

"count 4758.000000 4760.000000 4760.000000 \n",

"mean 107.184111 6.113866 692.508403 \n",

"std 21.960332 1.141294 1235.007337 \n",

"min 0.000000 0.000000 0.000000 \n",

"25% 94.000000 5.600000 55.000000 \n",

"50% 104.000000 6.200000 238.000000 \n",

"75% 118.000000 6.800000 740.250000 \n",

"max 338.000000 10.000000 13752.000000 "

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" <div id=\"df-717a5594-5929-4383-993a-8ea5bf54c355\" class=\"colab-df-container\">\n",

" <div>\n",

"<style scoped>\n",

" .dataframe tbody tr th:only-of-type {\n",

" vertical-align: middle;\n",

" }\n",

"\n",

" .dataframe tbody tr th {\n",

" vertical-align: top;\n",

" }\n",

"\n",

" .dataframe thead th {\n",

" text-align: right;\n",

" }\n",

"</style>\n",

"<table border=\"1\" class=\"dataframe\">\n",

" <thead>\n",

" <tr style=\"text-align: right;\">\n",

" <th></th>\n",

" <th>Movie\_ID</th>\n",

" <th>Movie\_Budget</th>\n",

" <th>Movie\_Popularity</th>\n",

" <th>Movie\_Revenue</th>\n",

" <th>Movie\_Runtime</th>\n",

" <th>Movie\_Vote</th>\n",

" <th>Movie\_Vote\_Count</th>\n",

" </tr>\n",

" </thead>\n",

" <tbody>\n",

" <tr>\n",

" <th>count</th>\n",

" <td>4760.000000</td>\n",

" <td>4.760000e+03</td>\n",

" <td>4760.000000</td>\n",

" <td>4.760000e+03</td>\n",

" <td>4758.000000</td>\n",

" <td>4760.000000</td>\n",

" <td>4760.000000</td>\n",

" </tr>\n",

" <tr>\n",

" <th>mean</th>\n",

" <td>2382.566387</td>\n",

" <td>2.920129e+07</td>\n",

" <td>21.599510</td>\n",

" <td>8.263743e+07</td>\n",

" <td>107.184111</td>\n",

" <td>6.113866</td>\n",

" <td>692.508403</td>\n",

" </tr>\n",

" <tr>\n",

" <th>std</th>\n",

" <td>1377.270159</td>\n",

" <td>4.075620e+07</td>\n",

" <td>31.887919</td>\n",

" <td>1.630554e+08</td>\n",

" <td>21.960332</td>\n",

" <td>1.141294</td>\n",

" <td>1235.007337</td>\n",

" </tr>\n",

" <tr>\n",

" <th>min</th>\n",

" <td>1.000000</td>\n",

" <td>0.000000e+00</td>\n",

" <td>0.000372</td>\n",

" <td>0.000000e+00</td>\n",

" <td>0.000000</td>\n",

" <td>0.000000</td>\n",

" <td>0.000000</td>\n",

" </tr>\n",

" <tr>\n",

" <th>25%</th>\n",

" <td>1190.750000</td>\n",

" <td>9.257500e+05</td>\n",

" <td>4.807074</td>\n",

" <td>0.000000e+00</td>\n",

" <td>94.000000</td>\n",

" <td>5.600000</td>\n",

" <td>55.000000</td>\n",

" </tr>\n",

" <tr>\n",

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" <td>1.500000e+07</td>\n",

" <td>13.119058</td>\n",

" <td>1.944716e+07</td>\n",

" <td>104.000000</td>\n",

" <td>6.200000</td>\n",

" <td>238.000000</td>\n",

" </tr>\n",

" <tr>\n",

" <th>75%</th>\n",

" <td>3572.250000</td>\n",

" <td>4.000000e+07</td>\n",

" <td>28.411929</td>\n",

" <td>9.341276e+07</td>\n",

" <td>118.000000</td>\n",

" <td>6.800000</td>\n",

" <td>740.250000</td>\n",

" </tr>\n",

" <tr>\n",

" <th>max</th>\n",

" <td>4788.000000</td>\n",

" <td>3.800000e+08</td>\n",

" <td>875.581305</td>\n",

" <td>2.787965e+09</td>\n",

" <td>338.000000</td>\n",

" <td>10.000000</td>\n",

" <td>13752.000000</td>\n",

" </tr>\n",

" </tbody>\n",

"</table>\n",

"</div>\n",

" <div class=\"colab-df-buttons\">\n",

"\n",

" <div class=\"colab-df-container\">\n",

" <button class=\"colab-df-convert\" onclick=\"convertToInteractive('df-717a5594-5929-4383-993a-8ea5bf54c355')\"\n",

" title=\"Convert this dataframe to an interactive table.\"\n",

" style=\"display:none;\">\n",

"\n",

" <svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\" viewBox=\"0 -960 960 960\">\n",

" <path d=\"M120-120v-720h720v720H120Zm60-500h600v-160H180v160Zm220 220h160v-160H400v160Zm0 220h160v-160H400v160ZM180-400h160v-160H180v160Zm440 0h160v-160H620v160ZM180-180h160v-160H180v160Zm440 0h160v-160H620v160Z\"/>\n",

" </svg>\n",

" </button>\n",

"\n",

" <style>\n",

" .colab-df-container {\n",

" display:flex;\n",

" gap: 12px;\n",

" }\n",

"\n",

" .colab-df-convert {\n",

" background-color: #E8F0FE;\n",

" border: none;\n",

" border-radius: 50%;\n",

" cursor: pointer;\n",

" display: none;\n",

" fill: #1967D2;\n",

" height: 32px;\n",

" padding: 0 0 0 0;\n",

" width: 32px;\n",

" }\n",

"\n",

" .colab-df-convert:hover {\n",

" background-color: #E2EBFA;\n",

" box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px rgba(60, 64, 67, 0.15);\n",

" fill: #174EA6;\n",

" }\n",

"\n",

" .colab-df-buttons div {\n",

" margin-bottom: 4px;\n",

" }\n",

"\n",

" [theme=dark] .colab-df-convert {\n",

" background-color: #3B4455;\n",

" fill: #D2E3FC;\n",

" }\n",

"\n",

" [theme=dark] .colab-df-convert:hover {\n",

" background-color: #434B5C;\n",

" box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",

" filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\n",

" fill: #FFFFFF;\n",

" }\n",

" </style>\n",

"\n",

" <script>\n",

" const buttonEl =\n",

" document.querySelector('#df-717a5594-5929-4383-993a-8ea5bf54c355 button.colab-df-convert');\n",

" buttonEl.style.display =\n",

" google.colab.kernel.accessAllowed ? 'block' : 'none';\n",

"\n",

" async function convertToInteractive(key) {\n",

" const element = document.querySelector('#df-717a5594-5929-4383-993a-8ea5bf54c355');\n",

" const dataTable =\n",

" await google.colab.kernel.invokeFunction('convertToInteractive',\n",

" [key], {});\n",

" if (!dataTable) return;\n",

"\n",

" const docLinkHtml = 'Like what you see? Visit the ' +\n",

" '<a target=\"\_blank\" href=https://colab.research.google.com/notebooks/data\_table.ipynb>data table notebook</a>'\n",

" + ' to learn more about interactive tables.';\n",

" element.innerHTML = '';\n",

" dataTable['output\_type'] = 'display\_data';\n",

" await google.colab.output.renderOutput(dataTable, element);\n",

" const docLink = document.createElement('div');\n",

" docLink.innerHTML = docLinkHtml;\n",

" element.appendChild(docLink);\n",

" }\n",

" </script>\n",

" </div>\n",

"\n",

"\n",

"<div id=\"df-7db5f4cf-7be1-478d-9864-d30b49f7c0f0\">\n",

" <button class=\"colab-df-quickchart\" onclick=\"quickchart('df-7db5f4cf-7be1-478d-9864-d30b49f7c0f0')\"\n",

" title=\"Suggest charts\"\n",

" style=\"display:none;\">\n",

"\n",

"<svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\"viewBox=\"0 0 24 24\"\n",

" width=\"24px\">\n",

" <g>\n",

" <path d=\"M19 3H5c-1.1 0-2 .9-2 2v14c0 1.1.9 2 2 2h14c1.1 0 2-.9 2-2V5c0-1.1-.9-2-2-2zM9 17H7v-7h2v7zm4 0h-2V7h2v10zm4 0h-2v-4h2v4z\"/>\n",

" </g>\n",

"</svg>\n",

" </button>\n",

"\n",

"<style>\n",

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" --hover-bg-color: #E2EBFA;\n",

" --hover-fill-color: #174EA6;\n",

" --disabled-fill-color: #AAA;\n",

" --disabled-bg-color: #DDD;\n",

" }\n",

"\n",

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" --bg-color: #3B4455;\n",

" --fill-color: #D2E3FC;\n",

" --hover-bg-color: #434B5C;\n",

" --hover-fill-color: #FFFFFF;\n",

" --disabled-bg-color: #3B4455;\n",

" --disabled-fill-color: #666;\n",

" }\n",

"\n",

" .colab-df-quickchart {\n",

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" border: none;\n",

" border-radius: 50%;\n",

" cursor: pointer;\n",

" display: none;\n",

" fill: var(--fill-color);\n",

" height: 32px;\n",

" padding: 0;\n",

" width: 32px;\n",

" }\n",

"\n",

" .colab-df-quickchart:hover {\n",

" background-color: var(--hover-bg-color);\n",

" box-shadow: 0 1px 2px rgba(60, 64, 67, 0.3), 0 1px 3px 1px rgba(60, 64, 67, 0.15);\n",

" fill: var(--button-hover-fill-color);\n",

" }\n",

"\n",

" .colab-df-quickchart-complete:disabled,\n",

" .colab-df-quickchart-complete:disabled:hover {\n",

" background-color: var(--disabled-bg-color);\n",

" fill: var(--disabled-fill-color);\n",

" box-shadow: none;\n",

" }\n",

"\n",

" .colab-df-spinner {\n",

" border: 2px solid var(--fill-color);\n",

" border-color: transparent;\n",

" border-bottom-color: var(--fill-color);\n",

" animation:\n",

" spin 1s steps(1) infinite;\n",

" }\n",

"\n",

" @keyframes spin {\n",

" 0% {\n",

" border-color: transparent;\n",

" border-bottom-color: var(--fill-color);\n",

" border-left-color: var(--fill-color);\n",

" }\n",

" 20% {\n",

" border-color: transparent;\n",

" border-left-color: var(--fill-color);\n",

" border-top-color: var(--fill-color);\n",

" }\n",

" 30% {\n",

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" border-left-color: var(--fill-color);\n",

" border-top-color: var(--fill-color);\n",

" border-right-color: var(--fill-color);\n",

" }\n",

" 40% {\n",

" border-color: transparent;\n",

" border-right-color: var(--fill-color);\n",

" border-top-color: var(--fill-color);\n",

" }\n",

" 60% {\n",

" border-color: transparent;\n",

" border-right-color: var(--fill-color);\n",

" }\n",

" 80% {\n",

" border-color: transparent;\n",

" border-right-color: var(--fill-color);\n",

" border-bottom-color: var(--fill-color);\n",

" }\n",

" 90% {\n",

" border-color: transparent;\n",

" border-bottom-color: var(--fill-color);\n",

" }\n",

" }\n",

"</style>\n",

"\n",

" <script>\n",

" async function quickchart(key) {\n",

" const quickchartButtonEl =\n",

" document.querySelector('#' + key + ' button');\n",

" quickchartButtonEl.disabled = true; // To prevent multiple clicks.\n",

" quickchartButtonEl.classList.add('colab-df-spinner');\n",

" try {\n",

" const charts = await google.colab.kernel.invokeFunction(\n",

" 'suggestCharts', [key], {});\n",

" } catch (error) {\n",

" console.error('Error during call to suggestCharts:', error);\n",

" }\n",

" quickchartButtonEl.classList.remove('colab-df-spinner');\n",

" quickchartButtonEl.classList.add('colab-df-quickchart-complete');\n",

" }\n",

" (() => {\n",

" let quickchartButtonEl =\n",

" document.querySelector('#df-7db5f4cf-7be1-478d-9864-d30b49f7c0f0 button');\n",

" quickchartButtonEl.style.display =\n",

" google.colab.kernel.accessAllowed ? 'block' : 'none';\n",

" })();\n",

" </script>\n",

"</div>\n",

"\n",

" </div>\n",

" </div>\n"

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"application/vnd.google.colaboratory.intrinsic+json": {

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]

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"outputId": "7c3407a1-fea8-45af-adf4-8604f2e1ba16"

},

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"data": {

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" 'Movie\_Budget', 'Movie\_Popularity', 'Movie\_Release\_Date',\n",

" 'Movie\_Revenue', 'Movie\_Runtime', 'Movie\_Vote', 'Movie\_Vote\_Count',\n",

" 'Movie\_Homepage', 'Movie\_Keywords', 'Movie\_Overview',\n",

" 'Movie\_Production\_House', 'Movie\_Production\_Country',\n",

" 'Movie\_Spoken\_Language', 'Movie\_Tagline', 'Movie\_Cast', 'Movie\_Crew',\n",

" 'Movie\_Director'],\n",

" dtype='object')"

]

},

"metadata": {},

"execution\_count": 7

}

]

},

{

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"\*\*Get Feature Selection\*\*"

],

"metadata": {

"id": "ZXVWc4-JzirF"

}

},

{

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},

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"outputs": []

},

{

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"Selected five existing features to recommend movies. It may vary from project to project and developer to developer. Like one can add language, vote, director, etc."

],

"metadata": {

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}

},

{

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"data": {

"text/plain": [

"(4760, 5)"

]

},

"metadata": {},

"execution\_count": 9

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},

"id": "UUH8qnon3JD0",

"outputId": "05978a8a-4264-4227-8ee8-abfa35af314e"

},

"execution\_count": 10,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

" Movie\_Genre \\\n",

"0 Crime Comedy \n",

"1 Adventure Action Science Fiction \n",

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"4756 \n",

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"4758 \n",

"4759 music actors legendary perfomer classic hollyw... \n",

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"0 Twelve outrageous guests. Four scandalous requ... \n",

"1 A long time ago in a galaxy far, far away... \n",

"2 There are 3.7 trillion fish in the ocean, they... \n",

"3 The world will never be the same, once you've ... \n",

"4 Look closer. \n",

"... ... \n",

"4755 The hot spot where Satan's waitin'. \n",

"4756 Itâs better to stand out than to fit in. \n",

"4757 She never knew it could happen to her... \n",

"4758 \n",

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"1 Mark Hamill Harrison Ford Carrie Fisher Peter ... George Lucas \n",

"2 Albert Brooks Ellen DeGeneres Alexander Gould ... Andrew Stanton \n",

"3 Tom Hanks Robin Wright Gary Sinise Mykelti Wil... Robert Zemeckis \n",

"4 Kevin Spacey Annette Bening Thora Birch Wes Be... Sam Mendes \n",

"... ... ... \n",

"4755 Lisa Hart Carroll Michael Des Barres Paul Drak... Pece Dingo \n",

"4756 Roni Akurati Brighton Sharbino Jason Lee Anjul... Frank Lotito \n",

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" }\n",

" </style>\n",

"\n",

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"\n",

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" const dataTable =\n",

" await google.colab.kernel.invokeFunction('convertToInteractive',\n",

" [key], {});\n",

" if (!dataTable) return;\n",

"\n",

" const docLinkHtml = 'Like what you see? Visit the ' +\n",

" '<a target=\"\_blank\" href=https://colab.research.google.com/notebooks/data\_table.ipynb>data table notebook</a>'\n",

" + ' to learn more about interactive tables.';\n",

" element.innerHTML = '';\n",

" dataTable['output\_type'] = 'display\_data';\n",

" await google.colab.output.renderOutput(dataTable, element);\n",

" const docLink = document.createElement('div');\n",

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" element.appendChild(docLink);\n",

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" try {\n",

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" 'suggestCharts', [key], {});\n",

" } catch (error) {\n",

" console.error('Error during call to suggestCharts:', error);\n",

" }\n",

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" }\n",

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"4 Drama male nudity female nudity adultery midli...\n",

" ... \n",

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"print(x)"

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"outputId": "f1e29f13-ee18-4d78-d3a9-f6c15a0c88ed"

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" (0, 492)\t0.1432591540388685\n",

" (0, 15413)\t0.1465525095337543\n",

" (0, 9675)\t0.14226057295252661\n",

" (0, 9465)\t0.1659841367820977\n",

" (0, 1390)\t0.16898383612799558\n",

" (0, 7825)\t0.09799561597509843\n",

" (0, 1214)\t0.13865857545144072\n",

" (0, 729)\t0.13415063359531618\n",

" (0, 13093)\t0.1432591540388685\n",

" (0, 15355)\t0.10477815972666779\n",

" (0, 9048)\t0.0866842116160778\n",

" (0, 11161)\t0.06250380151644369\n",

" (0, 16773)\t0.17654247479915475\n",

" (0, 5612)\t0.08603537588547631\n",

" (0, 16735)\t0.10690083751525419\n",

" (0, 7904)\t0.13348000542112332\n",

" (0, 15219)\t0.09800472886453934\n",

" (0, 11242)\t0.07277788238484746\n",

" (0, 3878)\t0.11998399582562203\n",

" (0, 5499)\t0.11454057510303811\n",

" (0, 7071)\t0.19822417598406614\n",

" (0, 7454)\t0.14745635785412262\n",

" (0, 1495)\t0.19712637387361423\n",

" (0, 9206)\t0.15186283580984414\n",

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" (4757, 2967)\t0.16273475835631626\n",

" (4757, 8464)\t0.23522565554066333\n",

" (4757, 6938)\t0.17088173678136628\n",

" (4757, 8379)\t0.17480603856721913\n",

" (4757, 15303)\t0.07654356007668191\n",

" (4757, 15384)\t0.09754322497537371\n",

" (4757, 7649)\t0.11479421494340192\n",

" (4757, 10896)\t0.14546473055066447\n",

" (4757, 4494)\t0.05675298448720501\n",

" (4758, 5238)\t1.0\n",

" (4759, 11264)\t0.33947721804318337\n",

" (4759, 11708)\t0.33947721804318337\n",

" (4759, 205)\t0.3237911628497312\n",

" (4759, 8902)\t0.3040290704566037\n",

" (4759, 14062)\t0.3237911628497312\n",

" (4759, 3058)\t0.2812896191863103\n",

" (4759, 7130)\t0.26419662449963793\n",

" (4759, 10761)\t0.3126617295732147\n",

" (4759, 4358)\t0.18306542312175342\n",

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" (4759, 15431)\t0.19628653185946862\n",

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"Similarity\_Score = cosine\_similarity(x)"

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" 0. ],\n",

" [0.01351235, 1. , 0.00806674, ..., 0. , 0. ,\n",

" 0. ],\n",

" [0.03570468, 0.00806674, 1. , ..., 0. , 0.08014876,\n",

" 0. ],\n",

" ...,\n",

" [0. , 0. , 0. , ..., 1. , 0. ,\n",

" 0. ],\n",

" [0. , 0. , 0.08014876, ..., 0. , 1. ,\n",

" 0. ],\n",

" [0. , 0. , 0. , ..., 0. , 0. ,\n",

" 1. ]])"

]

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"execution\_count": 21

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"(4760, 4760)"

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"metadata": {},

"execution\_count": 22

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]

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"\*\*Get Movie Name as Input from User and Validate for Closest Spelling\*\*\n",

"\n",

"---\n",

"\n"

],

"metadata": {

"id": "cUudFUFQ9dcw"

}

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"source": [

"Favourite\_Movie\_Name = input('Enter your favourite movie name : ')"

],

"metadata": {

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"output\_type": "stream",

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"Enter your favourite movie name : American Beauty\n"

]

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"All\_Movies\_Title\_List = df['Movie\_Title'].tolist()"

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"import difflib"

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"Movie\_Recommendation = difflib.get\_close\_matches(Favourite\_Movie\_Name, All\_Movies\_Title\_List)\n",

"print(Movie\_Recommendation)"

],

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]

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"Close\_Match = Movie\_Recommendation[0]\n",

"print(Close\_Match)"

],

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},

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"American Beauty\n"

]

}

]

},

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"Index\_of\_Close\_Match\_Movie = df[df.Movie\_Title == Close\_Match]['Movie\_ID'].values[0]\n",

"print(Index\_of\_Close\_Match\_Movie)"

],

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"outputId": "f5c5f9e6-1719-4a72-837f-e9e398d221eb"

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"5\n"

]

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"Recommendation\_Score = list(enumerate(Similarity\_Score[Index\_of\_Close\_Match\_Movie]))\n",

"print(Recommendation\_Score)"

],

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"print('Top 30 Movies Suggested for You : \\n')\n",

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"i=1\n",

"\n",

"for movie in sorted\_similar\_movies:\n",

" index = movie[0]\n",

" title\_from\_index = df[df.index==index]['Movie\_Title'].values[0]\n",

" if (i<31):\n",

" print(i, '.',title\_from\_index)\n",

" i+=1"

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"3 . Melancholia\n",

"4 . Concussion\n",

"5 . The Musketeer\n",

"6 . The Slaughter Rule\n",

"7 . Willy Wonka & the Chocolate Factory\n",

"8 . Grace Unplugged\n",

"9 . The Naked Gun 2Â½: The Smell of Fear\n",

"10 . Lockout\n",

"11 . Charlie and the Chocolate Factory\n",

"12 . The Green Mile\n",

"13 . A Beautiful Mind\n",

"14 . Bad Company\n",

"15 . My Own Private Idaho\n",

"16 . Bang Bang Baby\n",

"17 . Being John Malkovich\n",

"18 . Bee Movie\n",

"19 . Raise Your Voice\n",

"20 . Proof of Life\n",

"21 . The Return of the Pink Panther\n",

"22 . The Girl on the Train\n",

"23 . 8 Women\n",

"24 . O Brother, Where Art Thou?\n",

"25 . March or Die\n",

"26 . Across the Universe\n",

"27 . Oculus\n",

"28 . Crazy in Alabama\n",

"29 . Pocketful of Miracles\n",

"30 . Fantasia\n"

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"from os import close\n",

"Movie\_name = input('Enter your favourite movie name : ')\n",

"list\_of\_all\_titles = df['Movie\_Title'].tolist()\n",

"find\_close\_match = difflib.get\_close\_matches(Movie\_name, list\_of\_all\_titles)\n",

"close\_match = find\_close\_match[0]\n",

"index\_of\_movie = df[df.Movie\_Title == close\_match]['Movie\_ID'].values[0]\n",

"Recommendation\_Score = list(enumerate(Similarity\_Score[index\_of\_movie]))\n",

"sorted\_similar\_movies = sorted(Recommendation\_Score, key = lambda x:x[1], reverse=True)\n",

"print('Top 10 Movies Suggested for You : \\n')\n",

"\n",

"i=1\n",

"for movie in sorted\_similar\_movies:\n",

" index = movie[0]\n",

" title\_from\_index = df[df.Movie\_ID==index]['Movie\_Title'].values\n",

" if (i<11):\n",

" print(i, '.',title\_from\_index)\n",

" i+=1"

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"Top 10 Movies Suggested for You : \n",

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"2 . ['Marie Antoinette']\n",

"3 . ['The Empire Strikes Back']\n",

"4 . ['You Only Live Twice']\n",

"5 . ['Tropic Thunder']\n",

"6 . ['Return of the Jedi']\n",

"7 . ['She Done Him Wrong']\n",

"8 . ['Star Wars: Episode II - Attack of the Clones']\n",

"9 . ['Evita']\n",

"10 . ['Lethal Weapon 4']\n"

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