ASSIGNMENT-8

COLLABORATIVE FILTERING

SUBMITTED BY:

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Problem Statement:

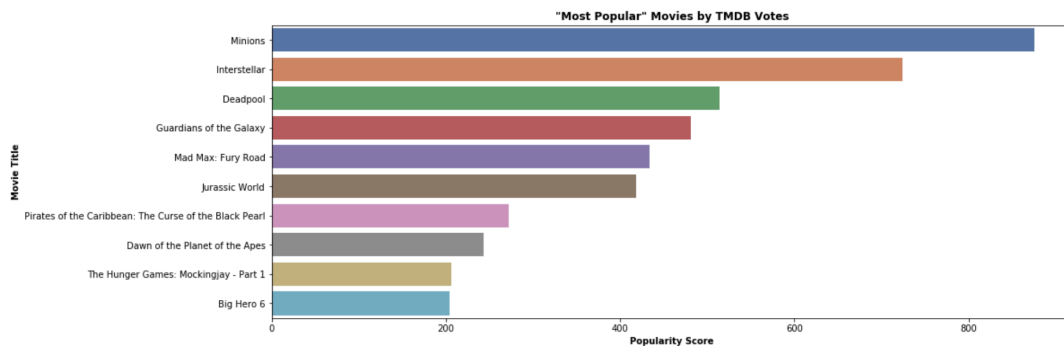Use Collaborative Filtering to recommend movies to users based on their previous ratings.

```python
movies_scored = movies_clean.sort_values(['score'], ascending=False)
movies_scored[['original_title', 'norm_weighted_average', 'norm_popularity', 'score']].head(20)
```
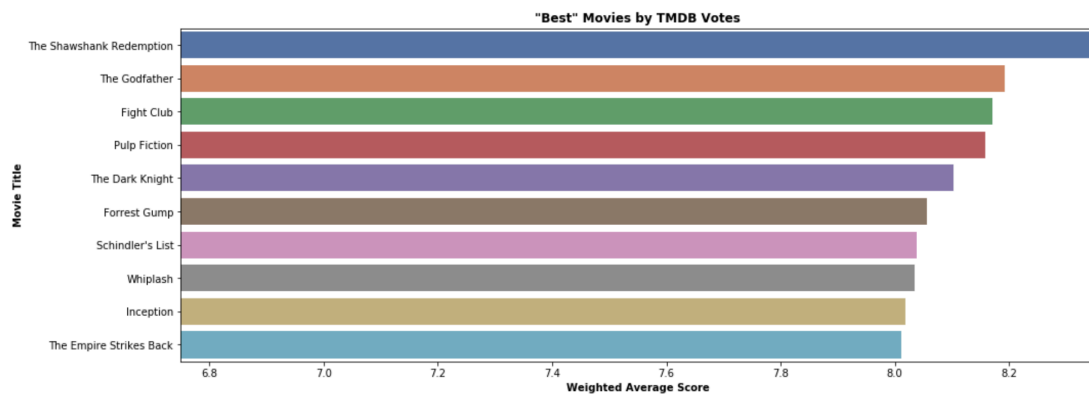
Out[24]:

	original_title	norm_weighted_average	norm_popularity	score
95	Interstellar	0.906439	0.827162	0.866801
546	Minions	0.460630	1.000000	0.730315
94	Guardians of the Galaxy	0.851874	0.549462	0.700668
788	Deadpool	0.725217	0.587690	0.656453
127	Mad Max: Fury Road	0.670973	0.495989	0.583481
1881	The Shawshank Redemption	1.000000	0.156179	0.578090
65	The Dark Knight	0.934991	0.213941	0.574466
3865	Whiplash	0.916431	0.219887	0.568159
3337	The Godfather	0.959622	0.164074	0.561848
662	Fight Club	0.953823	0.167611	0.560717
96	Inception	0.912039	0.191397	0.551718
3232	Pulp Fiction	0.949991	0.138723	0.544357
809	Forrest Gump	0.922264	0.157762	0.540013
199	Pirates of the Caribbean: The Curse of the Bla...	0.740925	0.310620	0.525772
2294	千と千尋の神隠し	0.909647	0.135874	0.522761
88	Big Hero 6	0.812013	0.232685	0.522349
329	The Lord of the Rings: The Return of the King	0.897418	0.141198	0.519308
1818	Schindler's List	0.917537	0.119314	0.518426

```python
plt.title('"Most Popular" Movies by TMDB Votes', weight='bold')
plt.xlabel('Popularity Score', weight='bold')
plt.ylabel('Movie Title', weight='bold')

#plt.savefig('popular_movies.png')
```

Out[21]: Text(0, 0.5, 'Movie Title')

"Best" Movies by TMDB Votes


```
plt.xlabel('Score', weight='bold')
plt.ylabel('Movie Title', weight='bold')

#plt.savefig('scored_movies.png')
```

Best Rated & Most Popular Blend