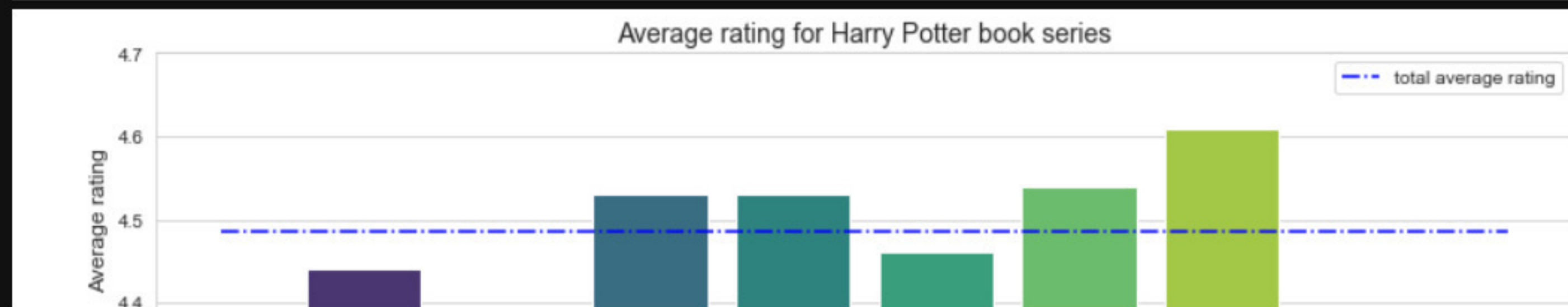


```
[9]: weighted_avg = (hp_books.average_rating * hp_books.ratings_count).sum() / hp_books.ratings_count.sum()
titles = hp_books.title.tolist()

sns.set_style("whitegrid")
plt.figure(figsize=(12, 6))
sns.barplot(x=titles, y=hp_books.average_rating, palette="viridis")
plt.xlabel('Title', fontsize=12)
plt.ylabel('Average rating', fontsize=12)
plt.ylim((4.3, 4.7))

plt.hlines(weighted_avg, xmin=-1, xmax=8, color='blue', linestyle='dashdot', label='total average rating')
plt.title('Average rating for Harry Potter book series', fontsize=14)
plt.xticks(rotation=45, ha='right')

plt.tight_layout()
plt.legend()
plt.show()
```



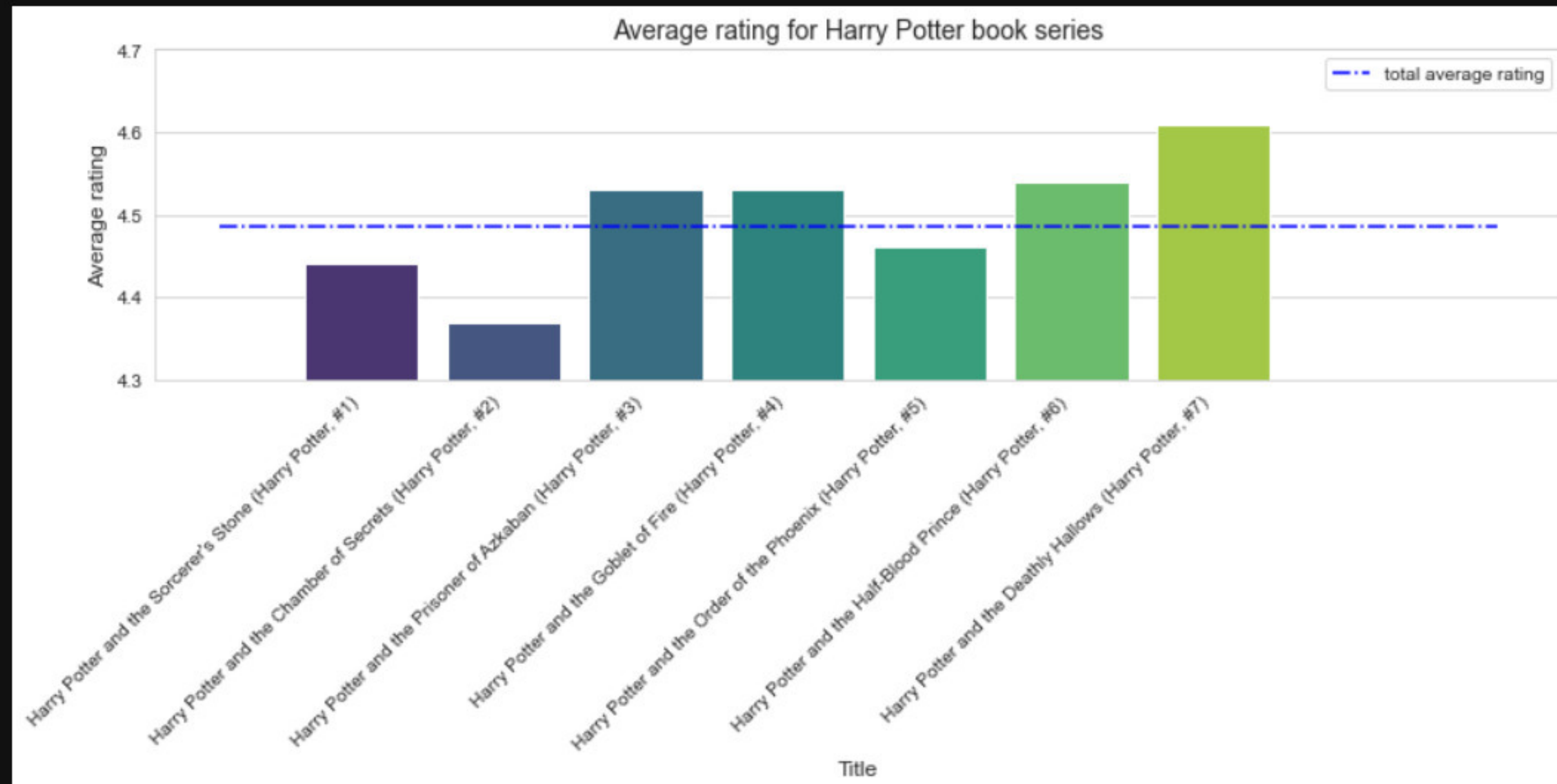


Assignment\_HP\_Books.ipynb X

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Python 3 (ipykernel) ○

```
plt.tight_layout()
plt.legend()
plt.show()
```



```
[10]: print("Average Ratings : ",weighted_avg)
```

```
Average Ratings : 4.486117244334695
```

```
[ ]:
```