

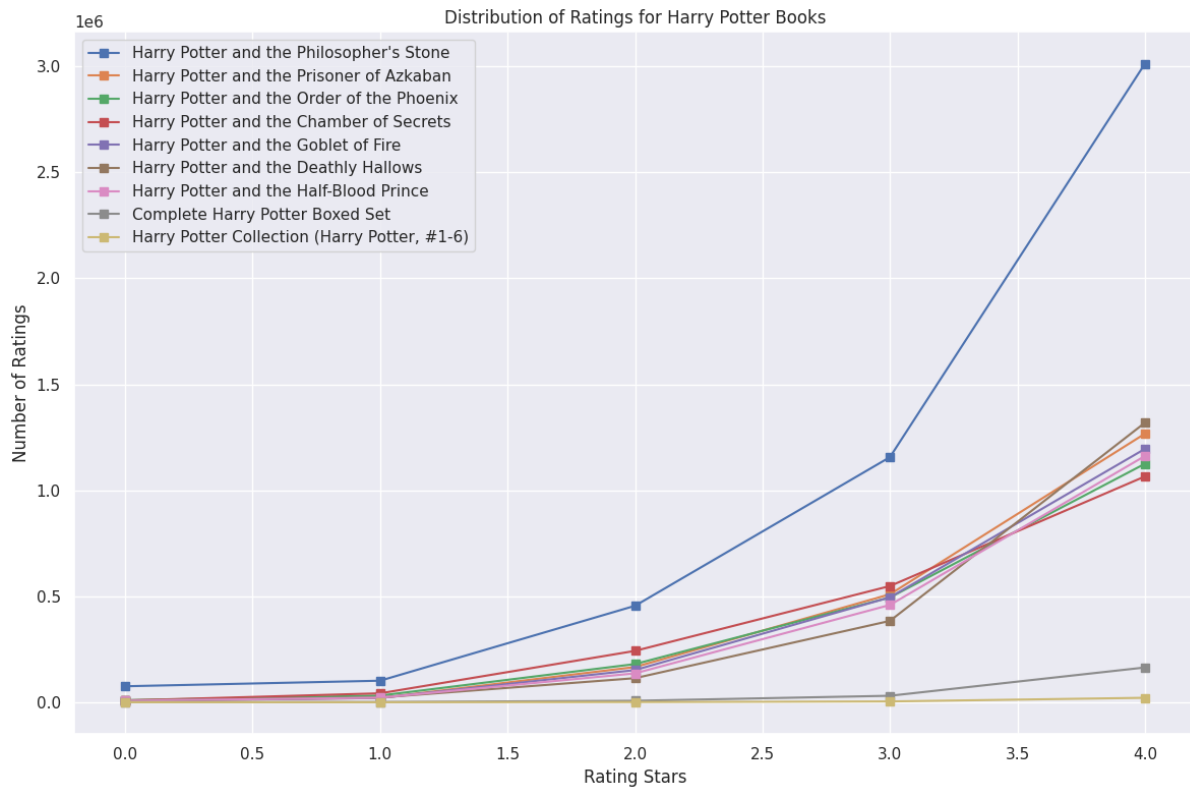
Cloud computing Assignment 2 Report

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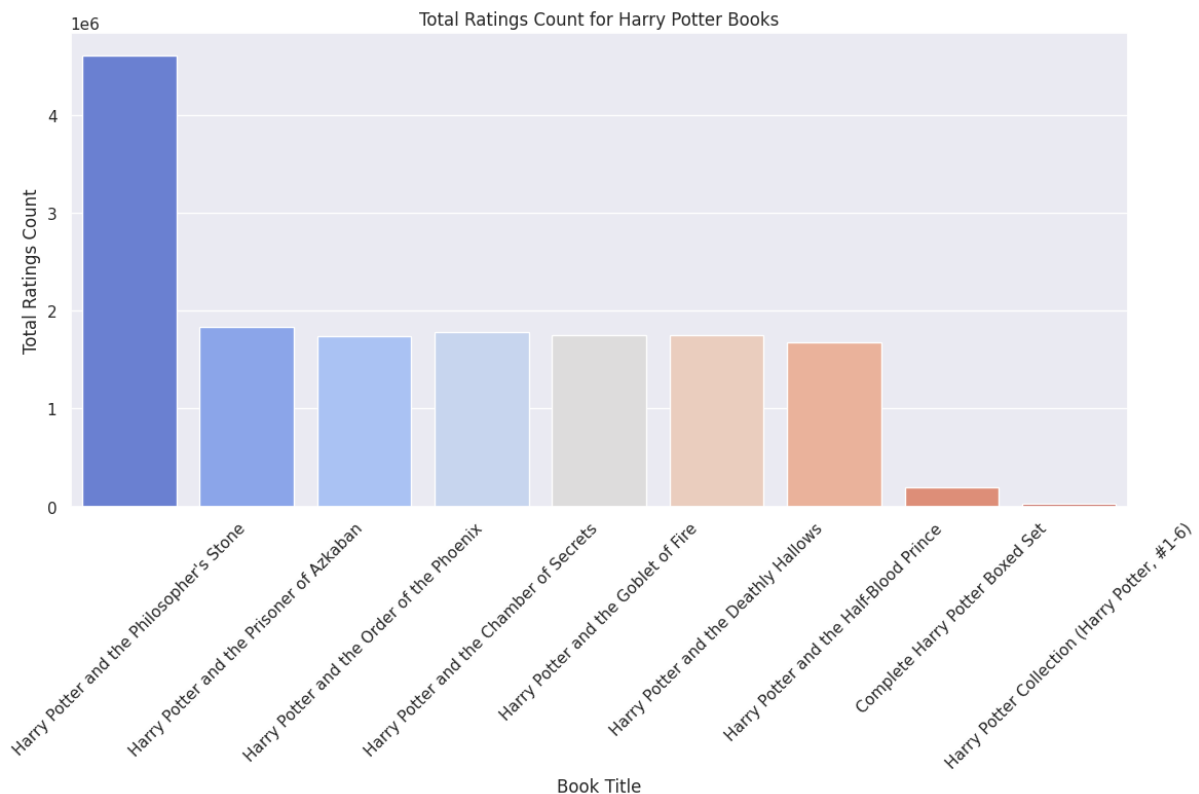
Here's what I found as a result:

1. We began by juxtaposing the ratings of all books on a single graph to underscore the numerical variances.



Our analysis reveals that "Harry Potter and the Philosopher's Stone" commands the highest overall ratings across all star categories, notably standing out with a substantial disparity between 4 and 5-star ratings. However, it's noteworthy that this isn't necessarily the most favorably received book in the series.

- Delving deeper into the data by plotting total rankings, we observe that the most frequently rated and top-selling book is "Harry Potter and the Philosopher's Stone." This is primarily attributed to its position as the inaugural book in the series and its seniority.



- Our subsequent objective was to identify the most esteemed book in the series, achieved through a weighted average approach due to varying book ratings. The formula used was:

$$\text{Weighted Average Rating} = \frac{\sum(\text{Average Rating} * \text{Ratings Count})}{\sum(\text{Ratings Count})}$$

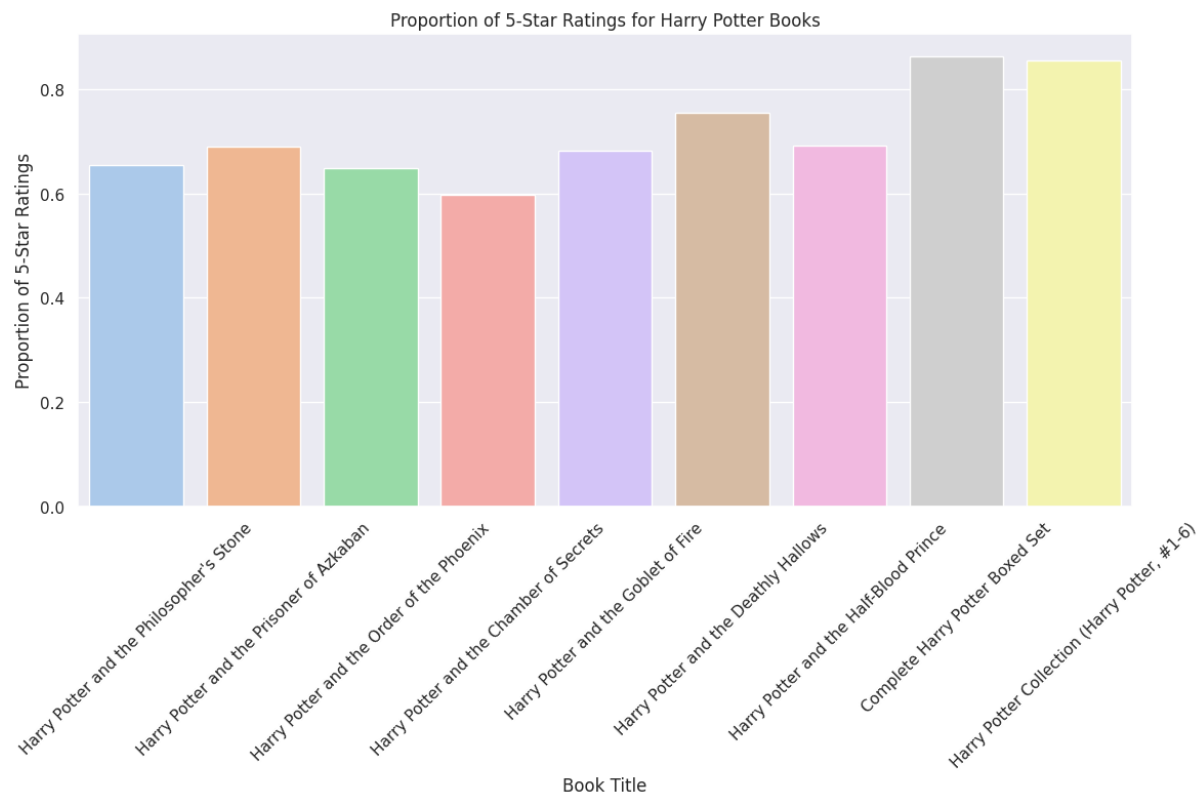
This calculation was performed for each book, yielding the following outcome:

The weighted average rating for the entire series is 4.48, with "Harry Potter and the Deathly Hallows" boasting the highest average rating.



4. Zooming in on the most esteemed book by examining the prevalence of 5-star ratings among readers:

"Harry Potter and the Deathly Hallows" garners the most 5-star ratings from the total reader ratings, constituting 75% of all 5-star ratings



Conclusion:

The most widely read and purchased book in the series is "Harry Potter and the Philosopher's Stone," whereas the most esteemed book, based on both highest average rating and highest 5-star ratings, is "Harry Potter and the Deathly Hallows."