

Book_Analysis

April 20, 2024

```
[21]: import pandas as pd

data_path = '/data/books.csv'

df = pd.read_csv(data_path)

df.isnull().sum()

df['ratings_count'] = pd.to_numeric(df['ratings_count'], errors='coerce')

df['average_rating'] = pd.to_numeric(df['average_rating'], errors='coerce')

try:
    df['Year'] = pd.to_numeric(df['original_publication_year'], errors='coerce')
except:
    print("Error: Converting 'original_publication_year' to numeric failed.")
    pass

hp_books = df[df['title'].str.contains('Harry Potter')]

top_3_selling_hp = hp_books.nlargest(3, 'ratings_count')

avg_rating_hp = hp_books['average_rating'].mean()

print("Highest Selling Harry Potter Book(s):")
print(top_3_selling_hp)
print("\nAverage Rating of Harry Potter Books:")
print(avg_rating_hp)
```

Highest Selling Harry Potter Book(s):

	book_id	goodreads_book_id	best_book_id	work_id	books_count	isbn \
1	2	3	3	4640799	491	439554934
6	18	5	5	2402163	376	043965548X
9	23	15881	15881	6231171	398	439064864

	isbn13	authors \
1	9.780440e+12	J.K. Rowling, Mary GrandPré
6	9.780440e+12	J.K. Rowling, Mary GrandPré, Rufus Beck

9 9.780439e+12 J.K. Rowling, Mary GrandPré

	original_publication_year	original_title	...	\
1	1997.0	Harry Potter and the Philosopher's Stone	...	
6	1999.0	Harry Potter and the Prisoner of Azkaban	...	
9	1998.0	Harry Potter and the Chamber of Secrets	...	

	work_ratings_count	work_text_reviews_count	ratings_1	ratings_2	ratings_3	\
1	4800065	75867	75504	101676	455024	
6	1969375	36099	6716	20413	166129	
9	1906199	34172	8253	42251	242345	

	ratings_4	ratings_5	image_url	\
1	1156318	3011543	https://images.gr-assets.com/books/1474154022m...	
6	509447	1266670	https://images.gr-assets.com/books/1499277281m...	
9	548266	1065084	https://images.gr-assets.com/books/1474169725m...	

	small_image_url	Year
1	https://images.gr-assets.com/books/1474154022s...	1997.0
6	https://images.gr-assets.com/books/1499277281s...	1999.0
9	https://images.gr-assets.com/books/1474169725s...	1998.0

[3 rows x 24 columns]

Average Rating of Harry Potter Books:
4.482727272727273

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