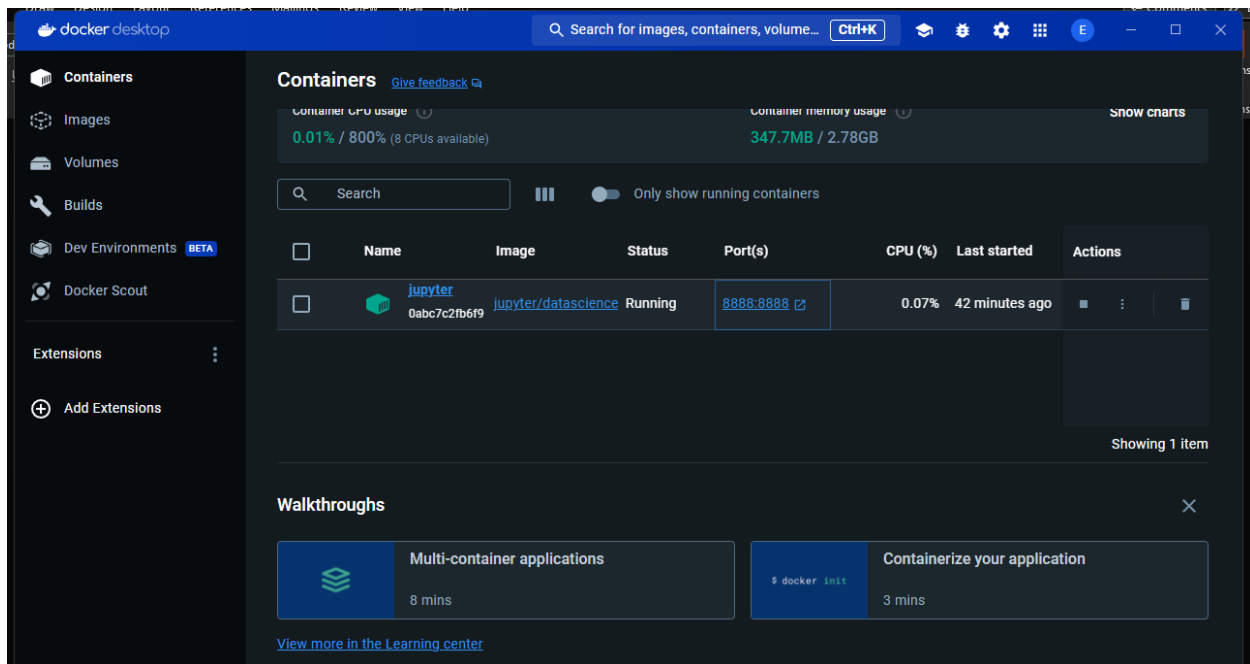


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Final Results :

After installing docker and linking it to jupyter :



For the data preprocessing , selecting only Harry potter books and used the column books\_count because there were no sales column , also the results after calculating the average rating :

```
Untitled1.py:nb  x Books.csv  x  Code  v
+  ✂  📄  📄  ▶  ■  ↺  ⏮  ⏭  Code  v

•[14]: missing_values = df.isnull().sum()
      print("Missing values:")
      print(missing_values)

      df = df.drop_duplicates(subset=['title'], keep='first')

Missing values:
book_id                0
goodreads_book_id     0
best_book_id          0
work_id               0
books_count           0
isbn                 52
isbn13               44
authors              0
original_publication_year  3
original_title        52
title                0
language_code        109
average_rating        0
ratings_count         0
work_ratings_count    0
work_text_reviews_count 0
ratings_1             0
ratings_2             0
ratings_3             0
ratings_4             0
ratings_5             0
image_url             0
small_image_url       0
dtype: int64
```

0	20413	100129	305447	1200070
10	20210	151785	494926	1195045
8	31577	180210	494427	1124806

```

image_url \
1 https://images.gr-assets.com/books/1474154022m...
9 https://images.gr-assets.com/books/1474169725m...
6 https://images.gr-assets.com/books/1499277281m...
10 https://images.gr-assets.com/books/1361482611m...
8 https://images.gr-assets.com/books/1387141547m...

```

```

small_image_url
1 https://images.gr-assets.com/books/1474154022s...
9 https://images.gr-assets.com/books/1474169725s...
6 https://images.gr-assets.com/books/1499277281s...
10 https://images.gr-assets.com/books/1361482611s...
8 https://images.gr-assets.com/books/1387141547s...

```

[5 rows x 23 columns]

```

[15]: average_rating = harry_potter_df['average_rating'].mean()
print("Average rating of Harry Potter books:", average_rating)

```

Average rating of Harry Potter books: 4.482727272727273

```

[ ]:

```