

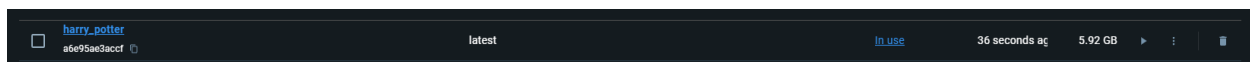
## Downloading Jupiter docker image

```
Command Prompt - docker p x + v
C:\Users\LENOVO> docker pull jupyter/datascience-notebook
Using default tag: latest
latest: Pulling from jupyter/datascience-notebook
aece8493d397: Downloading [=====] 15.85MB/29.54MB
fd92c719666c: Download complete
088f11eb1e74: Download complete
4f4fb700ef54: Download complete
ef8373d600b0: Download complete
77e45ee945dc: Download complete
a30f89a0af6c: Download complete
dc42adc7eb73: Download complete
abaa8376a650: Downloading [==>] 2.14MB/104.8MB
aa099bb9e49a: Download complete
822c4cbcf6a6: Waiting
d25166dcdc7b: Waiting
964fc3e4ff9f: Waiting
2c4c69587ee4: Waiting
de2cdd875fa8: Waiting
75d33599f5f2: Waiting
31973ea82470: Waiting
96ee7e4439c7: Waiting
1f9ad23c07ac: Waiting
d19266e0cb17: Waiting
9a165b6e9dc7: Waiting
5689442fd4e1: Waiting
9a6a202f62a6: Waiting
734ea0c3d94e: Waiting
a21a167f7127: Waiting
02c2173301db: Waiting
e488194bf535: Waiting
```

## Docker file

```
1 FROM jupyter/datascience-notebook
2 COPY . /cloud
3 WORKDIR /cloud
4 EXPOSE 7000
5 CMD ["jupyter", "notebook", "--ip='0.0.0.0'", "--port=7000", "--no-browser", "--allow-root"]
```

## The image



```

C:\Users\LENOVO>docker run -p 8888:8888 harry_potter
[I 2024-04-24 15:07:53.168 ServerApp] Package notebook took 0.0000s to import
[I 2024-04-24 15:07:53.302 ServerApp] Package jupyter_lsp took 0.0362s to import
[W 2024-04-24 15:07:53.205 ServerApp] A '_jupyter_server_extension_points' function was not found in jupyter_lsp. Instead, a '_jupyter_server_extension_paths' function was found and will be used for now. This function name will be deprecated in future releases of Jupyter Server.
[I 2024-04-24 15:07:53.209 ServerApp] Package jupyter_server_mathjax took 0.0033s to import
[I 2024-04-24 15:07:53.302 ServerApp] Package jupyter_server_proxy took 0.0926s to import
[I 2024-04-24 15:07:53.316 ServerApp] Package jupyter_server_terminals took 0.0133s to import
[I 2024-04-24 15:07:53.316 ServerApp] Package jupyterlab took 0.0000s to import
[I 2024-04-24 15:07:54.105 ServerApp] Package jupyterlab_git took 0.0588s to import
[I 2024-04-24 15:07:54.111 ServerApp] Package nbclassic took 0.0059s to import
[W 2024-04-24 15:07:54.115 ServerApp] A '_jupyter_server_extension_points' function was not found in nbclassic. Instead, a '_jupyter_server_extension_paths' function was found and will be used for now. This function name will be deprecated in future releases of Jupyter Server.
[I 2024-04-24 15:07:54.115 ServerApp] Package nbdtm took 0.0000s to import
[I 2024-04-24 15:07:54.116 ServerApp] Package notebook_shim took 0.0000s to import
[W 2024-04-24 15:07:54.116 ServerApp] A '_jupyter_server_extension_points' function was not found in notebook_shim. Instead, a '_jupyter_server_extension_paths' function was found and will be used for now. This function name will be deprecated in future releases of Jupyter Server.
[I 2024-04-24 15:07:54.117 ServerApp] jupyter_lsp | extension was successfully linked.
[I 2024-04-24 15:07:54.122 ServerApp] jupyter_server_mathjax | extension was successfully linked.
[I 2024-04-24 15:07:54.122 ServerApp] jupyter_server_proxy | extension was successfully linked.
[I 2024-04-24 15:07:54.126 ServerApp] jupyter_server_terminals | extension was successfully linked.
[I 2024-04-24 15:07:54.131 ServerApp] jupyterlab | extension was successfully linked.
[I 2024-04-24 15:07:54.132 ServerApp] jupyterlab_git | extension was successfully linked.

```

In data preparation:

- I filled na with “empty” because when I drop nulls for original\_title I lost the data
- Then dropped the useless data
- And presented the avg with describe after cleaning the data
- And located the best selling book with the biggest books count

The best seller book Harry Potter and the Philosopher's Stone

AVG\_RATING = 4.491

I faced when using the image every time I enter to the link asks for token or password and I fixed it by changing the port number from 8888 to 7000.