## READ\_ME

## Adriana Pitea

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## Jupyter Notebook Docker Container

This repository contains a Docker image for running a Jupyter Notebook with Python and to read in the  $taxonomic\_data.csv$  and perform the following tasks:

- 1. Calculate total species count for each taxonomic phylum and the average species count per species within each phylum. Write the results to csv files.
- 2. Generate a bar chart showing the total species count for each phylum.

## How to Build and Run

1. Build the Docker Image:

docker build -t jupyter-notebook-image

2. Run the Docker Image:

docker run -p 8888:8888 jupyter-notebook-image

3. Access the Jupyter Notebook:

Open a browser and go to http://127.0.0.1:8888 to access the Jupyter Notebook.