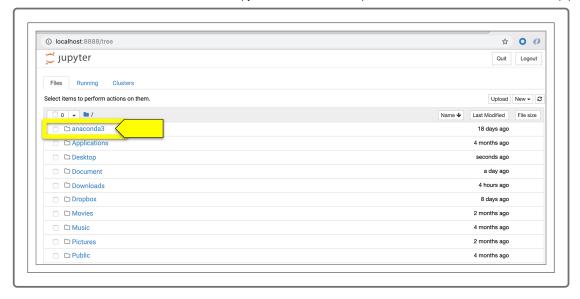# 4.1.2   Introduction to Jupyter Notebook

Maria wants you to take some time to become familiar with using Jupyter Notebook and has provided a tutorial for you. Go through the tutorial now before you get started on the project.

Jupyter Notebook is an open-source, web-based application that allows its users to create and share documents containing live code, equations, visualizations, and explanatory text. It combines a console, text editor, and file browser for your folders into one web-based application.

Jupyter Notebook is a popular tool for data analysts and scientists. With Jupyter Notebook, we can import data from a variety of formats, clean data, merge similar datasets, filter data based on conditionals, slice data on specific ranges, sort data based on values, and group data into similar categories. It can also be used to visualize data, write SQL queries, perform statistical analysis, and build and train machine learning models.

The following screenshot shows a folder structure similar to the one you'll see when you launch Jupyter Notebook. (We'll launch the program together later.)

localhost:8888/tree ☆ ○ ○

jupyter

Quit   Logout

Files   Running   Clusters

Select items to perform actions on them.

Upload   New ▼   ↻

☐ 0 ▼ ▣ /   Name ↓   Last Modified   File size

☐ ▢ anaconda3   18 days ago

☐ ▢ Applications   4 months ago

☐ ▢ Desktop   seconds ago

☐ ▢ Document   a day ago

☐ ▢ Downloads   4 hours ago

☐ ▢ Dropbox   8 days ago

☐ ▢ Movies   2 months ago

☐ ▢ Music   4 months ago

☐ ▢ Pictures   2 months ago

☐ ▢ Public   4 months ago

↻ Retake