Data Science with Python Module 5

Hands On - 7

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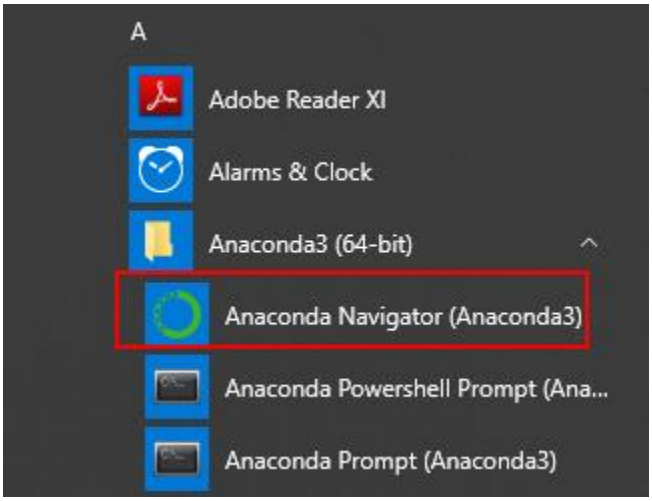
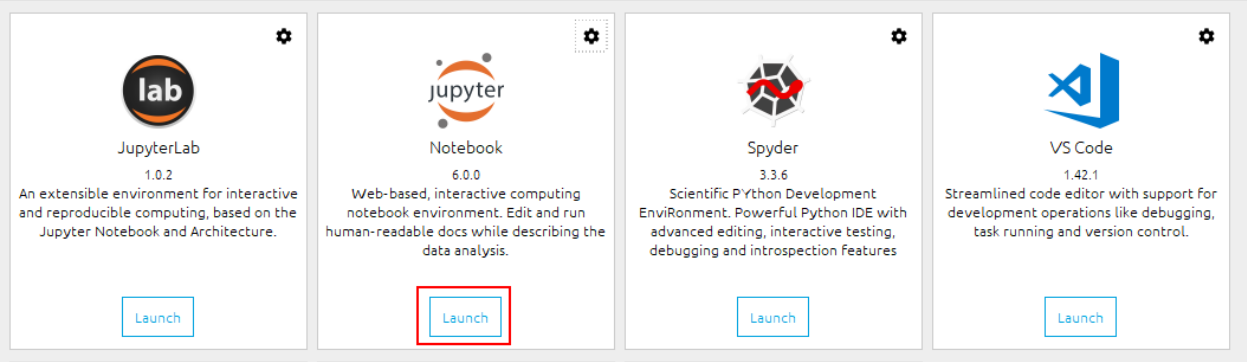
Data Science with Python Module 5: Hands-on: 7

Create a heatmap based on a matrix

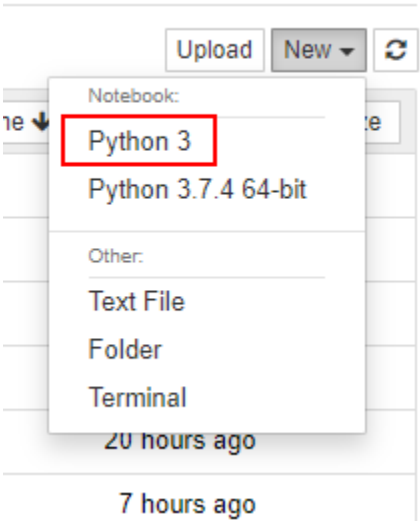
Step 1: Open Anaconda Navigator



Step 2: Click on Launch button under jupyter notebooks.



Step 3: After the notebook opens click on new and Python 3.



Step 4: Import matplotlib.pyplot and seaborn by typing the following code in the notebook and run it by pressing shift + enter

```
In [1]: import matplotlib.pyplot as plt
        import seaborn as sns
```

Step 5: Run this code to run create a heatmap based on a 2-d matrix.

```
In [14]: data = [
             [99, 85, 15],
             [78, 5, 25],
             [90, 45, 35],
         ]

         sns.heatmap(data, annot=True)
```

Step 5.1: Run this code to create a 2-d matrix.

```
In [14]: data = [
             [99, 85, 15],
             [78, 5, 25],
             [90, 45, 35],
         ]

         sns.heatmap(data, annot=True)
```

Step 5.2: Run this code to create a heatmap based on data passed as argument, the annot argument is set to true to get the data displayed in the heatmap cells.

```
In [14]: data = [
             [99, 85, 15],
             [78, 5, 25],
             [90, 45, 35],
         ]

         sns.heatmap(data, annot=True)
```

Step 5.3: Run this code and analyze the output.

```
Out[14]: <matplotlib.axes._subplots.AxesSubplot at 0x26c2cf6ec18>
```