

Data Science with Python Module 4 Hands On - 2

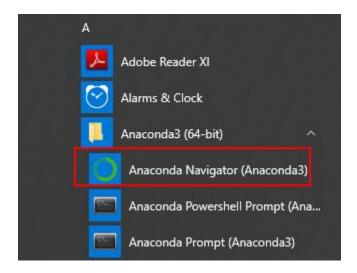
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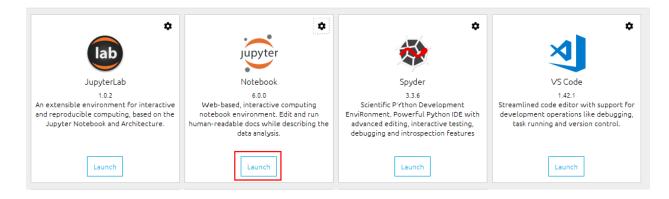
Data Science with Python Module 4: Hands-on: 2

Numpy Operations

Step 1: Open Anaconda Navigator

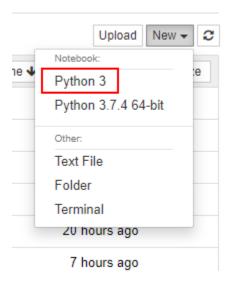


Step 2: Click on Launch button under jupyter notebooks.





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



Step 4: Import numpy by typing the following code in the notebook and run it by pressing shift + enter

```
In [1]: import numpy as np
```

Step 5: Create np array of zeroes of size (2, 3) run the following code.

Step 6: Flatten 2D np Array to 1d np array.

```
In [5]: # Flatten 2D np Array to 1d np array from a python list
arr = np.array([[1, 2, 3], [4, 5, 6]])
arr.ravel()
Out[5]: array([1, 2, 3, 4, 5, 6])
```



Step 7: Convert 1D np Array to 2d np array from a python list:

Step 8: Create np array and sort sort

```
In [7]: # Create np array and sort sort
    arr = np.array([1, 3, 2, 6, 5, 4])
    arr.sort()
    arr
Out[7]: array([1, 2, 3, 4, 5, 6])
```

Step 9: Slice an np array to create another array without the first two elements of the original array

```
In [8]: # Slice an np array to create another array without the first two elements of the original array
arr[2:]
Out[8]: array([3, 4, 5, 6])
```