



Data Science with Python Module 4

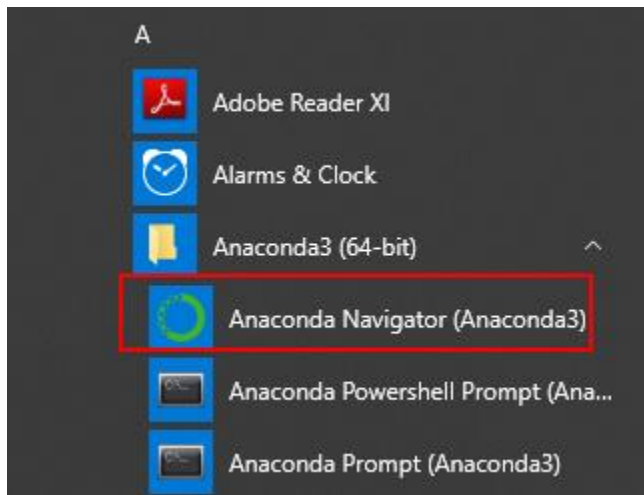
Hands On - 4

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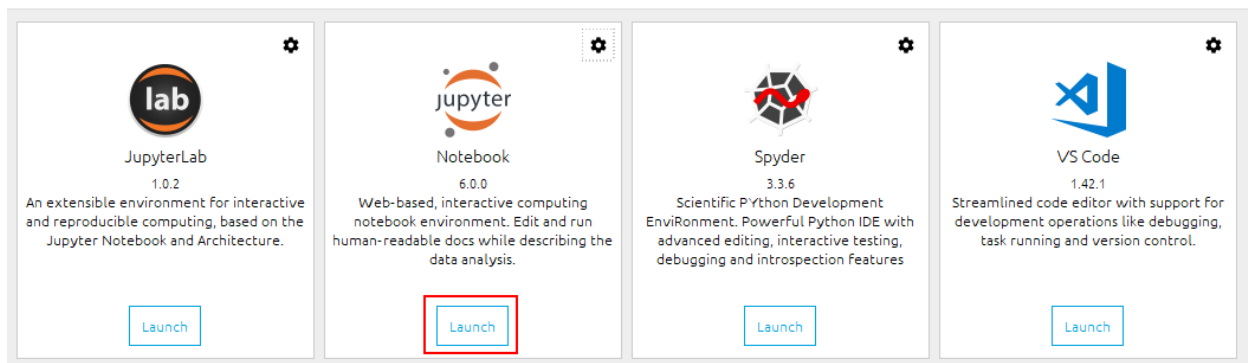
Data Science with Python Module 4: Hands-on: 4

Pandas Dataframe

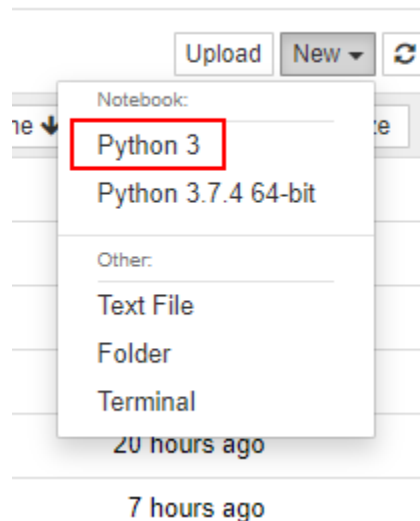
Step 1: Open Anaconda Navigator



Step 2: Click on Launch button under jupyter notebooks.



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



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

```
import pandas as pd
```

Step 5 Type the following code to create a pandas dataframe using an array.

```
In [13]: ''' Pandas Dataframe '''  
# Create a dataframe using an array  
pd.DataFrame([1, 2, 3, 4, 5])
```

```
Out[13]:  
   0  
0  1  
1  2  
2  3  
3  4  
4  5
```

Step 6: Type the following code to create a pandas dataframe using an 2d array.

```
In [14]: # Create a dataframe using an 2d array
data = [['John', 56], ['Johnny', 21], ['Joe', 54]]
df = pd.DataFrame(data, columns=['Name', 'Age'])
df
```

```
Out[14]:
```

	Name	Age
0	John	56
1	Johnny	21
2	Joe	54

Step 7: Type the following code to create a pandas dataframe using a dictionary.

```
In [15]: # Create a dataframe using a dictionary
df = pd.DataFrame({'Name': ['Anthony', 'Jimmy', 'Dave', 'Ricky'], 'Age': [35, 45, 40, 42]})
df
```

```
Out[15]:
```

	Name	Age
0	Anthony	35
1	Jimmy	45
2	Dave	40
3	Ricky	42

Step 8: Type the following code to create a pandas dataframe by importing data from a csv file.

```
In [16]: # Import data from a csv file
df = pd.read_csv('sample.csv')
df
```

```
Out[16]:
```

	name	age
0	Name#1	11
1	Name#2	12
2	Name#3	13
3	Name#4	14