

Data science tools and ecosystem

In this notebook, Data Science Tools and Ecosystem are summarized.

Some of the popular languages that Data Scientists use are:

1. sql
2. python
3. R
4. Matlab

Some of the commonly used libraries used by Data Scientists include:

```
In [4]: program = ['python', 'sql', 'java', 'c', 'c++', 'javascript']  
program
```

```
Out[4]: ['python', 'sql', 'java', 'c', 'c++', 'javascript']
```

Objectives:

- Identify commonly used tools in Data Science workflows
- Create and edit cells in a Jupyter Notebook
- Understand the role of GitHub for sharing and collaborating on code
- Demonstrate basic Python code and markdown formatting

Some of the commonly used libraries used by Data Scientists include:

```
In [5]: library = ['numpy', 'pandas', 'matplotlib', 'scikit-learn', 'tensorflow']  
library
```

```
Out[5]: ['numpy', 'pandas', 'matplotlib', 'scikit-learn', 'tensorflow']
```

```
In [8]: import pandas as pd  
  
table = pd.DataFrame(program, columns=['Data Science Tools'])  
table
```

Out[8]:

Data Science Tools	
0	python
1	sql
2	java
3	c
4	c++
5	javascript

Below are a few examples of evaluating arithmetic expressions in Python.

1. +
2. -
3. *
4. /
5. //
6. %
7. **

```
In [ ]: (3*4)+5
# This a simple arithmetic expression to multiply then add integers
```

Out[]: 17

```
In [11]: def min_to_hour(minutes):
#         return minutes / 60
# This will convert 200 minutes to hours by diving by 60.

round(min_to_hour(200),2)
```

Out[11]: 3.33

```
In [12]: pip install xelatex
```

```
ERROR: Could not find a version that satisfies the requirement xelatex (fr
om versions: none)
ERROR: No matching distribution found for xelatex
Note: you may need to restart the kernel to use updated packages.
```

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