

DataScienceEcosystem

August 6, 2025

Add your code below following the instructions given in the course

1 Data Science Tools and Ecosystem

1.1 Author

Barry D. McKinley

In this notebook, Data Science and Ecosystem are summarized.

Objectives: * Data Science Tools * Arithmetic expressions * Common libraries

Some of the popular languages that Data Scientists use are: 1- Python 2- R 3- SAS 4- SQL (sometimes not considered a Data Science language) 5- Java 6- C/C++

Some of the commonly used libraries used by Data Scientists include: Python libraries such as NumPy, MATplotlib, and Scikit-learn: Scala libraries such as Vegas and Big DL for deep learning: and R libraries such as ggplot2.

Data Science Tools

Visual Studio Code
GitLab
git

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

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

[6]: 17

```
[7]: # This will convert 200 minutes to hours by dividing by 60  
200/60
```

[7]: 3.3333333333333335

```
[ ]:
```