

# DataScienceEcosystem

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## 1 Data Science Tools and Ecosystem

### 1.1 Author

Damilola A. Olaifa

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

**Objectives:** List commonly used libraries in R - ggplot2 - caret - dplyr

Some of the popular languages that Data Scientists use are: 1. Python 2. R 3. C++ 4. Java 5. Scala 6. MATLAB

Some of the commonly used libraries used by Data Scientists include: 1. Numpy 2. Pandas 3. Matplotlib 4. Scikit-Learn 5. TensorFlow 6. PyTorch

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Data Science Tools

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Jupyter Notebook  
RStudio  
Anaconda

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**1.2.1 Below are a few examples of evaluating arithmetic expressions in Python**

```
[1]: # this a simple arithmetic expression to mutiply then add integers
      (3*4)+5
```

[1]: 17

```
[8]: # this will convert a given number of minutes to hours by diving by 60
      Minutes = float(input ("What is the time in Minutes "))
      Hours = Minutes/60
      print(Minutes, "Minutes ", "is ", Hours, "hours")
```

What is the time in Minutes 200  
200.0 Minutes is 3.3333333333333335 hours

```
[4]: # this will convert 200 minutes to hours by diving by 60
      minutes = 200
      hours = minutes / 60
```

```
print("200 minutes is ", hours, "hours")
```

200 minutes is 3.3333333333333335 hours