

# DataScienceEcosystem

July 30, 2025

Add your code below following the instructions given in the course

## 1 Data Science Tools and Ecosystem

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

**Objectives:** - List popular languages for Data Science - List commonly used libraries in Data Science - Table of Data Science tools - Examples of arithmetic expressions

Some of the popular languages that Data Scientists use are: 1. Python 2. R 3. Julia 4. SQL 5. Java

Some of the commonly used libraries used by Data Scientists include: 1. Numpy 2. Tensorflow 3. Pandas 4. Matplotlib 5. ggplot 6. Pytorch

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Data Science tools

Jupyter Notebook

RStudio

Apache Spark

Vs Code

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

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

[2]: 17

```
[4]: # This will convert 200 minutes to hours by diving by 60  
a = 200/60  
print(a)
```

3.3333333333333335

```
[7]: # or convert minutes into hours + minutes:  
print(f'{int(a)} hours {200-(int(a) * 60)} minutes')
```

3 hours 20 minutes

## 1.1 Author

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