

DataScienceEcosystem

March 1, 2025

Add your code below following the instructions given in the course

0.1 Data Science Tools and Ecosystem

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

Objectives:

- List popular languages for Data Science
- Identify commonly used libraries in Data Science
- Explore various open-source Data Science tools
- Perform basic arithmetic operations in Python
- Convert time units using Python expressions

Some of the popular languages that Data Scientists use are:

1. Python
2. R
3. Julia
4. Scala

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

1. NumPy
2. Pandas
3. Matplotlib
4. Scikit-learn
5. TensorFlow

Some of the popular open-source development environment tools used in Data Science are:

Data Science Tools

Jupyter Notebook

RStudio

Apache Zeppelin

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

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

[2]: 17

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

[3]: 3.3333333333333335

0.2 Author

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