

# DataScienceEcosystemDataScienceEcosystem

March 26, 2025

Exercise 1: Create a Jupyter Notebook

Exercise 2: Create markdown cell with title of the notebook

## 1 Data Science Tools and Ecosystem

Exercise 3 - Create a markdown cell for an introduction

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

Exercise 4 - Create a markdown cell to list data science languages

Some of the popular languages that Data Scientists use are:

1. Python
2. R
3. SQL
4. Java
5. Julia

Exercise 5 - Create a markdown cell to list data science libraries

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

1. NumPy
2. Pandas
3. Matplotlib
4. Seaborn
5. Plotly

Exercise 6 - Create a markdown cell with a table of Data Science tools

Data Science Tools
Jupyter Notebook
Pandas
Seaborn

Exercise 7 - Create a markdown cell introducing arithmetic expression examples

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

Exercise 8 - Create a code cell to multiply and add numbers

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

[2]: 17

Exercise 9 - Create a code cell to convert minutes to hours

```
[6]: # This will convert 200 minutes to hours by diving by 60

hour = 200//60
print("Hour : Minute :--> ", (200//60), " : ", 200 % 60)
```

Hour : Minute :--> 3 : 20

Exercise 10 - Insert a markdown cell to list Objectives

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

#### Objectives:

- Categories of Data Science Tools
- Languages of Data Science
- Introduction to Pythos
- Introduction to R
- Libraries of Data Science
- Machine Learning Models

Exercise 11 - Create a markdown cell to indicate the Author's name

### 1.1 Author

Shweta Premchand Pitambare

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[ ]:
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