

DataScienceEcosystem

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1 Data Science Tools and Ecosystem

In this notebook, Data Science Tools and Ecosystem are summarized. Some of the popular languages that Data Scientists use are: 1. Python

2. R

3. SQL

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

- **NumPy** – for numerical computations
- **pandas** – for data manipulation and analysis
- **matplotlib** – for data visualization
- **seaborn** – for statistical data visualization
- **scikit-learn** – for machine learning
- **TensorFlow** – for deep learning
- **Keras** – high-level neural networks API
- **PyTorch** – deep learning framework
- **statsmodels** – for statistical modeling

Data Science Tools

Jupyter Notebook

RStudio

Apache Zeppelin

Spyder

Visual Studio Code

1.0.1 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

Objectives:

- List popular languages for Data Science
- Identify commonly used libraries by Data Scientists
- Create and format Markdown cells
- Perform basic arithmetic operations in code cells
- Convert values using Python expressions (e.g., minutes to hours)

1.1 Author

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