

# Data Science Tools and Ecosystem

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

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

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

1. NumPy: NumPy is a fundamental library for scientific computing in Python. It provides powerful N-dimensional array objects, along with a collection of mathematical functions, for efficient manipulation of large datasets.
2. Pandas: Pandas is a versatile library for data manipulation and analysis. It offers high-performance, easy-to-use data structures such as DataFrame, which allows for efficient data cleaning, transformation, and exploration.
3. scikit-learn: scikit-learn is a popular machine learning library in Python. It provides a comprehensive set of algorithms for various tasks, including classification, regression, clustering, and dimensionality reduction. It also offers tools for model evaluation and selection.

## Data Science Tools

Jupyter Notebook

RStudio

Visual Studio Code

Below are a few examples of evaluating arithmetic expressions in Python

```
In [8]: # This is a simple arithmetic expression to multiply then add integers
result = (3*4) + 5
```

```
result
```

Out[8]: 17

```
In [9]: # This will convert 200 minutes to hours by dividing by 60
minutes = 200
hours = minutes / 60
hours
```

Out[9]: 3.3333333333333335

### Objectives:

- List popular languages for Data Science
- Explore commonly used libraries for Data Science
- Introduce Data Science tools and ecosystem
- Evaluate arithmetic expressions in Python
- Convert minutes to hours

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