

Data Science Tools and Ecosystem

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

Objective To create a Create a Jupyter Notebook with markdown and code cells. List examples of languages, libraries and tools used in Data Science.

- Python
- R
- SQL

Some of the popular languages that Data Scientists use are:

1. Python: Widely used for its simplicity and extensive libraries like NumPy, pandas, Matplotlib, and scikit-learn.
2. R: Known for its statistical analysis capabilities and visualization libraries such as ggplot2.
3. SQL: Essential for managing and querying relational databases.
4. Java: Used in big data technologies and scalable applications.

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

1. NumPy: Provides support for large, multi-dimensional arrays and matrices, along with a collection of mathematical functions.
2. pandas: Offers data structures and operations for manipulating numerical tables and time series.
3. Matplotlib: A plotting library for creating static, animated, and interactive visualizations.
4. Seaborn: Built on top of Matplotlib, it provides a high-level interface for drawing attractive statistical graphics.

Data Science Tools

Jupyter Notebook

Rstudio

Apache Zeppelin

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

This is a simple arithmetic expression to multiply then add integers:

```
In [2]: print((3*4)+5)
```

17

This will convert 200 minutes to hours by dividing by 60:

```
In [3]: print(200/60)
```

3.3333333333333335

Author

Harshita Sorout