

Data Science Tools and Ecosystem

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

Objectives

- List popular languages for Data Science
- Identify open-source data science tools
- Discuss key libraries used in data science
- understand arithmetic operations in python

Some of the popular languages that Data Scientists use are:

1. Python
2. Julia
3. R

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

1. **NumPy**: The NumPy library is used for efficient numerical computation.
2. **Pandas**: Used for data analysis
3. **Seaborn**: Used for data analysis and visualization

Data Science Tools

Data science tools

Jupyter Notebook

RStudio

Apache Zeppelin

Below are a few examples of evaluating arithmetic expressions in Python

```
In [ ]: # Addition
a= 1+2

# subtraction
b= 2-1

# Multiplication
c= 2*3

# Division
d= 4/2
```

```
display(print(a,b,c,d))
```

3 1 6 2.0

None

This a simple arithmetic expression to mutiply then add integers

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

```
Out[ ]: 17
```

This will convert 200 minutes to hours by diving by 60

```
In [ ]: # Conversion of minutes to hours
minutes = 200
hours = minutes/60
print("200 minutes is equal to", round(hours,0), "hours")
```

200 minutes is equal to 3.0 hours

Author

Jochoniah Nzomo