

DataScienceEcosystem

January 9, 2025

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. SQL 3. Julia 4. Javascript 5. C++

Some of the commonly used libraries used by Data Scientists include: 1. Matplotlib 2. Scikitlearn 3. Keras 4. Pandas 5. Apache Spark

Data Science Tools

Jupyter Notebook

Anaconda

Spyder

RStudio

Zeppelin

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

It may include mathematical operations like:

1. $a+b$
2. $a-b$
3. a/b
4. $a*b$

```
[1]: #This a simple arithmetic expression to mutiply then add integers.
```

```
(3*4)+5
```

```
[1]: 17
```

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

```
200/60
```

```
[2]: 3.3333333333333335
```

Objectives:

- In this course we learnt about Data science categories which can be classified as Execution environment, Data Asset Management, Code Asset Management and Development Environments.
- Data Asset Management can be further classified as Data management, Data integration and Transformation, Data visualization, model building, model deployment and model monitoring and assessment.
- Some of the popular languages in Data Science are Python, SQL, Scala, Java, Javascript and Ruby.
- Some of the commonly used libraries used in Data Science are Pandas, Pytorch, Keras, Scikitlearn and Matplotlib.
- Some of the Data Science Tools are Spyder, RStudio, Anaconda, Jupyter Notebook and Anaconda.

1.1 AUTHOR

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