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

4. Java

5. Julia

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

1. Pandas

2. NumPy

3. Matplotlib

4. Scikit-learn

5. TensorFlow

1.0.1 Data Science Tools

Tool	Category	Use Case
Jupyter Notebook	IDE / Notebook Tool	Writing and running code, visualization
RStudio	IDE	Data analysis and visualization in R
Apache Spark	Big Data Framework	Large-scale data processing
TensorFlow	Machine Learning Lib	Building and training ML models
Tableau	Visualization Tool	Creating interactive dashboards

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

```
[7]: # This a simple arithmetic expression to mutiply then add integers
     (3*4)+5
```

```
[7]: 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

- List commonly used libraries for Data Science

- Create tables of Data Science tools

- Demonstrate examples of arithmetic expressions in Python

- Convert minutes into hours using Python code

1.1 Author

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