

# DataScienceEcosystem

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## 1 Data Science Tools and Ecosystem

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

1.1.1 Some of the popular languages that Data Scientists use are

ordered list: - Python - R - Java - Scala - C++

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

ordered list: - Numpy - Pandas - Matplotlib - Seaborn - Scikit learn - Scipy - Tensorflow

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### Data Science Tools

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Apache Spark

Tensorflow

Tableau

Excel

SQL

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

Example:

- 30/6
- 50\*3
- 5-3

This a simple arithmetic expression to mutiply then add integers

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

```
[2]: 17
```

```
[ ]: 200 minutes into hours
```

This will convert 200 minutes to hours by diving by 60

```
[3]: minutes = 200
hours = minutes/60
print("200 minutes is equal to", hours, "hours")
```

200 minutes is equal to 3.333333333333335 hours

#### 1.1.4 Objectives:

The main objective of data science is to discover patterns in data. List popular languages for Data Science.: - Python - SQL - Scala - Java - Julia - C++

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