

# Jupyter\_Notebook

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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

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

1. Pandas (Python)
2. Numpy (Python)
3. matplotlib (Python)
4. dplyr (R)
5. ggplot2 (R)
6. plotly (R/Python)
7. TensorFlow (Python)
8. scikit-learn (Python)

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Data Science Tools

Jupyter Notebooks

RStudio

Visual Studio Code

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

```
# Add two Numbers
```

```
a = 2
```

```
b = 3
```

```
result = a + b # Addition
```

```
print(result) # Output
```

```
# More Complex Equation
```

```
a = 2
```

```
b = 5
```

```
c = 4
```

```
result = c * (a + b)
```

print (result) # Output

```
[3]: # This is a simple arithmetic expression to multiply then add integers
result = (3*4)+5
print(result)
```

17

```
[4]: # this will convert 200 minutes to hours by dividing by 60
minutes = 200
hours = minutes / 60
print(hours)
```

3.3333333333333335

## 2 Objectives:

- List Popular Languages used by Data Scientists
- List Most Common Libraries used by Data Scientists
- List Most Common Tools used by Data Scientists
- Provide Some Simple Examples of Arithmetic Operations in Python

### 2.1 Author

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[ ]:
```