

# Lab - Working with files in Jupyter Notebooks

August 21, 2023

## 1 Data Science Tools and Ecosystem

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

**Objectives:** 1. List popular languages for Data Science 2. List commonly used libraries for Data Scientists 3. Create a single table column listing development environment open source tools used in Data Science 4. Create a code cell to multiply and add numbers 5. Create a code cell to convert minutes to hours

Some of the popular languages that Data Scientists use are: 1. Python 2. R 3. SQL 4. Scala 5. Java 6. C++ 7. Julia 8. JavaScript 9. PHP 10. Go 11. Ruby 12. Visual Basic

Some of the commonly used libraries used by Data Scientists include: 1. Pandas 2. NumPy 3. Matplotlib 4. Seaborn 5. Scikit - learn 6. Keras 7. TensorFlow 8. PyTorch 9. Apache Spark 10. ggplot2

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Data Science Tools

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VisualStudio Code (VS Code)

Anaconda

Jupyter Notebook

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

This a simple arithmetic expression to mutiply then add integers

```
[10]: (3*4)+5
```

```
[10]: 17
```

This will convert 200 minutes to hours by dividing by 60

```
[11]: # Define the number of minutes
minutes = 200

# Convert minutes to hours
hours = minutes/60

# Print the result
print(hours)
```

3.333333333333335

## 1.1 Author

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