

DataScienceEcoSystem

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Add your code below following the instructions given in the course

1 Data Science Tools and Ecosystem

1.1 Introduction

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

Objectives + Popular Data Science languages + Data Science Libraries + Data Science Tools + Arithmetic Expressions

1.2 Data Science Languages

Some of the popular languages that Data Scientists use are: 1. Python 2. R 3. Scala 4. Julia 5. Java 6. C++ 7. SQL

1.3 Data Science Libraries

- Python Libraries
 1. Pandas
 2. Matplotlib
 3. Scikit-learn
 4. Numpy
 5. SciPy
 6. TensorFlow
 7. PyTorch
 8. NLTK
- R Libraries
 1. TidyVerse
 - ggplot2
 - dplyr
 - tidyr
 2. Caret
 3. Shiny

1.4 Data Science Development Environment Opensource Tools

1.5 Arithmetic Expression

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

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

```
[1]: 17
```

```
[4]: # This will convert minutes to hours by dividing by 60  
minutes = 200  
hours = minutes / 60  
print(f' {minutes} minutes in hours is {round(hours,1)} hours')
```

```
200 minutes in hours is 3.3 hours
```

1.6 Author

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