# DataScienceEcosystem

October 22, 2023

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[ ]: # Data Science Tools and Ecosystem
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[ ]: In this notebook, Data Science Tools and Ecosystem are summarized.
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[ ]: # Some of the popular languages that Data Scientists use are:

     1. **Python**
     2. **R**
     3. **SQL**
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[ ]: # Some of the commonly used libraries used by Data Scientists include:

     1. **NumPy**: A powerful library for numerical computing in Python.
     2. **Pandas**: Provides data structures like DataFrame and Series, ideal for␣
      ↪data manipulation and analysis.
     3. **Matplotlib**: A popular data visualization library for creating static,␣
      ↪interactive, and animated plots in Python.
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[ ]: # Data Science Tools

     | Tools                    |
     |--------------------------|
     | Jupyter Notebooks        |
     | RStudio                  |
     | Spyder                   |
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[ ]: ### Below are a few examples of evaluating arithmetic expressions in Python.
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[ ]: Exercise 8 - Create a code cell to multiply and add numbers

     In this code cell evaluate the expression (3*4)+5.
     Insert a comment line before the expression to explain the operation e.g.  This␣
      ↪a simple arithmetic expression to mutiply then add integers.
     Then execute the cell to ensure the expression returns the expected output of␣
      ↪17.
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Take a screenshot of the code cell **with** output **and** name it **as**␣
↳8-multiplyandaddintegers.png (Images can be saved **with** either the .jpg **or** .
↳png extension.)

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# This will convert 200 minutes to hours by dividing by 60.
minutes = 200
hours = minutes / 60
hours
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**Objectives:**

- List popular languages for Data Science.
- Introduce commonly used libraries in Data Science.
- Understand basic arithmetic operations in Python.
- Demonstrate converting minutes to hours using Python.
- Create tables and formatted text using Markdown in Jupyter Notebooks.
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