# Data Science Tools and Ecosystem

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

**Objective** To create a Create a Jupyter Notebook with markdown and code cells.List examples of languages, libraries and tools used in Data Science.

- Python
- R
- SQL

## Some of the popular languages that Data Scientists use are:

1. Python: Widely used for its simplicity and extensive libraries like NumPy, pandas, Matplotlib, and scikit-learn.
2. R: Known for its statistical analysis capabilities and visualization libraries such as ggplot2.
3. SQL: Essential for managing and querying relational databases.
4. Java: Used in big data technologies and scalable applications.

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

1. NumPy: Provides support for large, multi-dimensional arrays and matrices, along with a collection of mathematical functions.
2. pandas: Offers data structures and operations for manipulating numerical tables and time series.
3. Matplotlib: A plotting library for creating static, animated, and interactive visualizations.
4. Seaborn: Built on top of Matplotlib, it provides a high-level interface for drawing attractive statistical graphics.

Data Science Tools

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Jupyter Notebook

Rstudio

Apache Zeppelin

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

This a simple arithmetic expression to mutiply then add integers:

```
print((3*4)+5)

17
```

This will convert 200 minutes to hours by diving by 60:

```
print(200/60)
3.333333333333335
```

## Author

Harshita Sorout