

Data Science Final Project

Introduction

#This notebook is created as part of the final project for the Data Science course.

#It covers various aspects of data science including languages, libraries, tools, and basic arithmetic operations.

Data Science Languages

The following are popular languages used in Data Science:

- Python
- R
- SQL
- Julia
- Java
- Scala
- MATLAB

Data Science Libraries

Some of the commonly used libraries in Data Science are:

- Pandas
- NumPy
- Matplotlib
- Scikit-learn
- TensorFlow
- Keras
- PyTorch
- ggplot2 (for R)

Data Science Tools

Tool	Description
Jupyter	Interactive notebook environment
RStudio	IDE for R
Apache Hadoop	Framework for distributed storage and processing of large data sets
TensorFlow	Open-source machine learning framework
Apache Spark	Unified analytics engine for big data processing

Arithmetic Expression Examples

Below are examples of simple arithmetic expressions such as addition and multiplication.

Multiplication and Addition

a = 5
b = 4

Multiplication

multiplication = a * b
print(f"Multiplication of {a} and {b} is {multiplication}")

Addition

addition = a + b
print(f"Addition of {a} and {b} is {addition}")

➡ Multiplication of 5 and 4 is 20
Addition of 5 and 4 is 9

Conversion from minutes to hours

minutes = 150
hours = minutes / 60
print(f"{minutes} minutes is equal to {hours} hours")

➡ 150 minutes is equal to 2.5 hours

Objectives

- List popular data science languages
- List commonly used data science libraries

- Create a table of data science tools
- Demonstrate arithmetic operations
- Convert time from minutes to hours

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GitHub Link

The notebook can be accessed . ["https://github.com/dinesh2931/Data-Science-Final-Project"](https://github.com/dinesh2931/Data-Science-Final-Project)