

Data Science Tools And Examples

Introduction

In this notebook, we will explore various data science tools and libraries. We will also demonstrate some basic arithmetic operations and conversions using Python code. This notebook will help us understand how to work with JupyterLite and utilize it effectively for data science tasks.

Data Science Languages

- Python
- R
- SQL
- Julia
- Scala

Data Science Libraries

- Pandas
- NumPy
- Scikit-learn
- TensorFlow
- Keras
- Matplotlib
- Seaborn

Data Science Tools

Tool	Description
JupyterLite	A lightweight, browser-based Jupyter notebook environment.
RStudio	An integrated development environment for R.
Google Colab	A cloud-based Jupyter notebook service.
Visual Studio Code	A code editor that supports various languages and extensions.
Spyder	An IDE specifically for Python development.

Arithmetic Expression Examples

In this section, we will explore some basic arithmetic operations using Python. These examples will demonstrate how to perform addition and multiplication.

```
In [4]: # Multiplication and Addition
number1 = 10
```

```
number2 = 5

# Multiplication
product = number1 * number2
print(f"The product of {number1} and {number2} is {product}")

# Addition
sum_result = number1 + number2
print(f"The sum of {number1} and {number2} is {sum_result}")
```

The product of 10 and 5 is 50
The sum of 10 and 5 is 15

```
In [5]: # Convert 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

- Understand and use various data science languages and libraries.
- Perform basic arithmetic operations using Python.
- Convert time units using Python code.
- Learn to document and share JupyterLite notebooks effectively.

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```
In [ ]:
```