

# Jupyter\_Notebook

July 30, 2025

Add your code below following the instructions given in the course

## 1 module 6 assignment

Introduction

languages of data science 1. Rstudio 2. Python 3. SQL

data libraries 1. Panda 2. Matplotlib 3. Tensorflow

### 1.1 Data Science Tools

Category	Tool Examples
Data Manipulation	Pandas, NumPy, Dask
Data Visualization	Matplotlib, Seaborn, Plotly, Bokeh
Machine Learning	Scikit-learn, XGBoost, LightGBM
Deep Learning	TensorFlow, PyTorch, Keras, FastAI
Natural Language Processing	NLTK, spaCy, Hugging Face Transformers
Big Data & Distributed	Apache Spark, Hadoop
Database & Data Access	SQLAlchemy, PyMongo, OpenPyXL

### 1.2 arithmetic expression example

2+3

```
[2]: 3*18+10
```

```
[2]: 64
```

```
[4]: minutes = 60
hour = minutes/60
print(hour)
```

1.0

### 1.3 Common Data Science Tools

- **Pandas** – For data manipulation and analysis

- **NumPy** – For numerical computing
- **Matplotlib** – For data visualization
- **Scikit-learn** – For machine learning
- **TensorFlow** – For deep learning
- **Jupyter Notebook** – For interactive coding and analysis

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