Python - Session 1

Python Introduction

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1. Introduction
2. Hands-On:
   - Data Types
   - Collections (Containers)
   - Conditional Statements
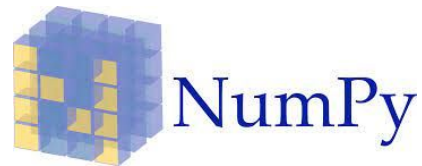   - Functions and Classes

Introduction

Python

- High-Level
- Interpreted Language
- Dynamically typed
- Multiparadigm

Introduction

Python for Data Science

- Scientific Computing
- Text Manipulation
- Image Processing
- Visualization
- Web Applications

Introduction

Python for Artificial Intelligence

- AI and ML frameworks

- Open source implementation

Introduction

Getting Started with Python Environments

- Local:

  Anaconda (Spyder IDE)

  PyCharm

  Visual Studio

  Jupyter Notebook/Lab

  Python console (CLI)

- Remote Notebooks:

  Google Colab

  Kaggle

  Azure Notebooks

Hands-On