Data Science with Python

Day 5,6,7 - Introduction to Python Programming

Today's Agenda

✓ **Introduction**

- Python - Anaconda, Spyder, Jupyter
- Installation & Configuration

✓ **Data Structures in Python**

- List
- Tuples
- Dictionary
- Matrices

✓ **Control Structure & Functions**

- If-Else Control Structure
- For loop
- While loop
- Custom Functions
- Exception Handling

Today's Agenda

✓ **NumPy Array**
- Creating NumPy Array
- Accessing Data Elements
- Inbuilt NumPy functions
- Slicing & Dicing Operations
- Numeric Operations

✓ **Pandas DataFrame**
- Creating Pandas DataFrame
- Accessing Data Elements
- Adding, Removing columns/Rows
- Conditional Data Filtering
- Joining the DataFrames
- Aggregation Operations
- Reading Data from Files