| Day 1 (30th May) | Basic Data Types  Data Structures: Lists, Tuples, Dictionaries, Sets  Control Flow: Conditionals, For Loops  Control Flow: While Loops |
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| Day 2 (31st May) | List Comprehensions  Functions and Modules   * Arguments * Return values * Scope * Default arguments * Keyword arguments * Variable number of arguments |
| Day 3 (1st June) | Introduction to Numpy   * Numpy Arrays * Array Indexing, Broadcasting * Array Arithmetic * Array Manipulation * Array Aggregation |
| Day 4 (2nd June) | Introduction to Pandas   * Introduction to Pandas and its role in data analysis * Data structures in Pandas: Series and DataFrame * Indexing and selecting data from DataFrame and Series * Handling missing data in Pandas * Data cleaning and preprocessing using Pandas * Working with different data types in Pandas * Data manipulation and transformation operations in Pandas * Combining and merging data from multiple DataFrames * Grouping and aggregation of data using Pandas |
| Day 5 (5th June) | Introduction to Apache Spark   * Overview of Spark and its role in Big Data processing * Understanding the Spark ecosystem and components * Introduction to DataFrames and Datasets * Working with structured and semi-structured data * DataFrame operations and transformations |