

Diary Entry - Week 1

Date: 15-07-2024 to 19-07-2024

Summary:

The first week of academic study was dedicated to establishing a solid foundation in Python programming and receiving an introduction to fundamental concepts in Data Structures and Algorithms (DSA).

Python Basics:

- Covered the fundamental aspects of Python programming language, including primitive data types and operators.
- Explored various data types such as integers, floats, strings, and boolean, understanding their applications within programming.
- Emphasized on basic arithmetic, comparison, and logical operators, essential for computational tasks.

Python Data Structures:

- Introduced to essential Python data structures like lists, tuples, and dictionaries, pivotal for organizing and managing data efficiently.
- Discussed the creation, manipulation, and accessing of elements within these data structures, enhancing comprehension and practical skills.

Introduction to DSA:

- Engaged in a preliminary discussion on the significance of Data Structures and Algorithms (DSA) in the realm of computer science and programming.
- Explored foundational data structures such as arrays, linked lists, stacks, and queues, understanding their roles and applications in problem-solving.

Reflection:

The inaugural week of academic pursuit provided a robust initiation into the realms of Python programming and DSA. The comprehensive exploration of Python's foundational concepts and introductory insights into DSA underscored the importance of these fundamentals in fostering a proficient understanding of computer science principles.

Goals for Next Week:

- Delve deeper into Python programming, focusing on advanced concepts such as functions, modules, and file handling.
- Progress further in the study of DSA, exploring intricate topics including recursion, sorting algorithms, and searching algorithms.
- Commit to regular coding practice sessions to refine problem-solving skills and reinforce theoretical knowledge.

WEEK <i>at a glance</i>	
Monday 15th July	10:00 AM- Introduction Session & Educollab Walkthrough 03:00 PM- Python Basics
Tuesday 16th July	02:00 PM- Python Basics
Wednesday 17th July	08:00 AM- Expert Talk: Joy of Data Science
Thursday 18th July	08:00 AM- Expert Talk: Joy of Data Science 03:00 PM- Python Basics
Friday 19th July	08:00 AM- Data Structures and Algorithms