

● Level 1: Basics of Data Structures

- What is Data Structure
- Types (Linear vs Non-linear)
- Array basics
- Stack & Queue introduction
- Applications of DS

● Level 2: Array, Stack & Queue

- Array operations (insert, delete, search)
- Stack operations (push, pop, peek)
- Queue operations (enqueue, dequeue)
- Circular Queue

● Level 3: Linked List

- Singly Linked List
- Doubly Linked List
- Circular Linked List
- Insertion & Deletion
- Traversal

● Level 4: Trees

- Binary Tree
- Binary Search Tree (BST)
- Tree Traversal (Inorder, Preorder, Postorder)
- Heap basics

◆ Level 5: Graphs

- Graph representation
- BFS (Breadth First Search)
- DFS (Depth First Search)
- Directed vs Undirected Graph
- Weighted Graph basics

● Level 6: Advanced & Problem Solving

- Time & Space Complexity (Big-O)
- Recursion
- Basic Dynamic Programming
- Problem-solving strategies
- Optimization techniques