

DSA (Data Structures & Algorithms)

– Syllabus

Programming Basics

- Variables & Data Types
- Operators
- Input / Output

Arrays

- Array Operations
- Searching (Linear, Binary)
- Sorting (Bubble, Selection, Insertion)

Strings

- String Operations
- Pattern Searching

Linked List

- Singly Linked List
- Doubly Linked List
- Circular Linked List

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Stack

- Push & Pop Operations
- Applications of Stack

Queue

- Simple Queue
- Circular Queue
- Priority Queue

Trees

- Binary Tree
- Binary Search Tree
- Tree Traversal

Graphs

- Graph Representation
- BFS (Breadth First Search)
- DFS (Depth First Search)

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Algorithms

- Recursion
- Searching Algorithms
- Sorting Algorithms

Problem Solving

- Time Complexity
- Space Complexity
- Practice Problems

