



AI + Generative AI

Be Future Ready





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Data Structures and Algorithms with Al

2 Months

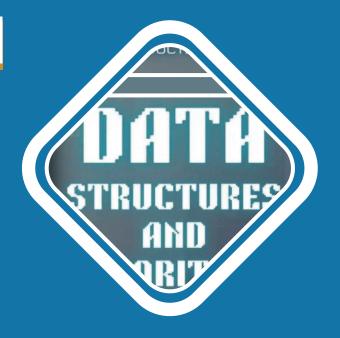


Data Structures and Algorithms with AI - 2 Months

Affordable Fees

Introduction to DSA

- Basics of Algorithms
- Importance of DSA in Programming
- Time and Space Complexity Analysis
- Problem-solving Techniques
- Big O Notation
- Types of Algorithms (Searching, Sorting, etc.)





Arrays and Strings

- Array Manipulation
- String Manipulation
- Sorting and Searching in Arrays
- Dynamic Arrays
- Two-pointer Technique
- Sliding Window Technique

Linked Lists

- Singly Linked Lists
- Doubly Linked Lists
- Circular Linked Lists
- Operations on Linked Lists (Insertion, Deletion, etc.)
- Reversing a Linked List
- Detecting Cycles in a Linked List

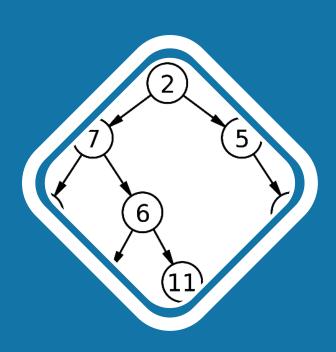


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Stacks and Queues

- Implementing Stacks using Arrays and Linked Lists
- Implementing Queues using Arrays and Linked Lists
- Applications of Stacks (e.g., parentheses matching)
- Applications of Queues (e.g., BFS traversal)
- Stack and Queue Operations
- Priority Queues



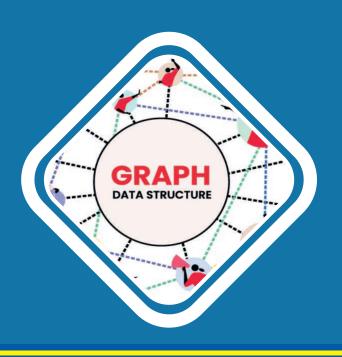


Trees

- Binary Trees
- Binary Search Trees (BST)
- Tree Traversal (pre-order, in-order, post-order)
- Depth-First Search (DFS)
- Breadth-First Search (BFS)
- Balancing

Graphs

- Representation of Graphs (Adjacency Matrix, Adjacency List)
- Graph Traversal (DFS, BFS)
- Shortest Path Algorithms (Dijkstra's, Bellman-Ford)
- Minimum Spanning Tree Algorithms (Prim's, Kruskal's)
- Topological Sorting
- Graph Coloring



Data Structures and Algorithms with AI - 2 Months





Open Al



DeepSeek



Cursor



GitHub Copilot



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