Data Structures and Algorithms Training
Duration: 3 Months (~120 Hours) | Fee: ₹11,999 | Format: Online | Level: Intermediate to Advanced

Module 1: Foundation & Complexity Analysis (Week 1-2)
Time/Space Complexity: Big-O Notation
Math for DSA: Bit Manipulation, Number Theory
Recursion: Base Cases, Stack Memory
Project: Fibonacci Series Visualizer

Module 2: Linear Data Structures (Week 3-5)
Arrays: Rotations, Prefix Sum
Linked Lists: Singly/Doubly, Fast-Slow Pointers
Stacks & Queues: Monotonic Stacks, Circular Queues
Project: LRU Cache Implementation

Module 3: Non-Linear Structures (Week 6-8)
Trees: Binary Trees, BST, AVL Trees
Heaps: Priority Queues, Heap Sort
Hashing: HashMaps, Collision Handling
Project: Autocomplete System (Trie)

Module 4: Graph Algorithms (Week 9-11)
Graph Representation: Adjacency Matrix/List
Traversals: BFS, DFS, Topological Sort
Shortest Path: Dijkstra, Floyd-Warshall
Project: Social Network Connection Finder

Module 5: Advanced Algorithms (Week 12-14)
Divide & Conquer: Merge Sort, Quickselect
Greedy: Fractional Knapsack, Job Sequencing
DP: 0/1 Knapsack, LCS, Tabulation vs Memoization
Project: Stock Trading Optimizer

Module 6: Interview Prep (Week 15-18)
Leetcode Patterns: Sliding Window, Two Pointers
Mock Interviews: FAANG-style Whiteboarding
System Design Primer: Scalability Basics
Capstone: 50+ Problem Sprint

Key Outcomes:
Solve 200+ Problems (Categorized by Difficulty)
Master 15+ Algorithmic Patterns
1:1 Mock Interviews with Performance Feedback
Curated Problem Sets (Company-Wise)
DSA Cheat Sheets (Time Complexity Chart)

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