

Course — Curriculum Brochure



- ✓ IITian Mentors
- ✓ Expert Curriculum
- ✓ 100% Placement

[Visit Website](#)

80 LPA

Highest CTC

210%

Salary Hike

900+

Learners

Edvance>

Course

STRUCTURE

Total: 72 hours

1

Basic Data Structures

This foundational module covers essential concepts in data structures and algorithms, including Arrays, Mathematics, Two Pointers techniques, and Bit Manipulation.

2

Advanced Algorithms

Building on basic principles, this section delves into more complex topics like advanced searching and sorting algorithms, backtracking, string manipulation, and intricate data structures like stacks & queues.

3

System Design

The System Design module is bifurcated into High-Level Design, focusing on architecture and scalability, and Low-Level Design, which emphasizes object-oriented principles and design pattern.

4

Interview Preparation

This equips candidates with robust interview skills, featuring mock interviews conducted by experts from leading tech companies with personalised feedback.

5

Placement & Referral

Module 1: Data Structures & Algo

Topic 1

- 1. Arrays and Maths:** Subarray problems, Prefix Sum Technique, 2D arrays
 - 2. Maths:** Number Theory
 - 3. 1-on-1 Career Session with Google Expert**
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Topic 2

- 1. Two Pointers:** Opposite direction pointers, Same direction pointers, Three pointer technique
 - 2. Bit Manipulation:** Basic Operations, Bit Masking, Hamming Distance
 - 3. Test 1:** Comprehensive Assessment
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Topic 3

- 1. Searching:** Linear Search, Binary Search and Variations
 - 2. Backtracking:** Recursion
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Topic 4

- 1. Backtracking:** Permutations & Combinations
 - 2. Sorting:** Bubble Sort, Selection Sort, Insertion Sort, Quick Sort, Merge Sort
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Topic 5

- 1. Strings:** String Manipulation, String Matching
- 2. Hashing:** Collision Resolution Techniques, Hash Tables, Applications of Hashing

Topic 6

- 1. Stacks :** Stack Implementation, Expression Evaluation, Sequence and Pattern Identification, Histogram and Area related problems
 - 2. Queues:** Queue Implementation, Circular Queue, Priority Queue, Deque
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Topic 7

- 1. Linked Lists:** Types and Implementation, Pointer based questions
 - 2. Test 2:** Comprehensive Assessment
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Topic 8

- 1. Trees:** Inorder traversal, Preorder traversal, Postorder traversal, Level Order Traversal, Lowest Common Ancestor
 - 2. BST:** Time and Space complexity analysis, Insertion and deletion in a BST, Traversals
 - 3. Tries:** Basic Trie Operations, Word Search Problems
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Topic 9

- 1. Heaps:** Min Heap, Max Heap
 - 2. Greedy Algorithm:** Classic Greedy Problems, Greedy problem based on arrays and graphs
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Topic 10

- 1. Dynamic Programming:** Classic DP Problems, DP problem based on arrays, trees and graphs
- 2. Graphs:** Graph traversals (BFS and DFS), Shortest Path Algorithms, Minimum Spanning Tree Algorithms
- 3. Test 3:** Comprehensive Assessment

Module 2: System Design, HLD & LLD

Topic 1

High Level Design: System Architecture and Design Patterns, Scalability and Performance Optimization, Database and Storage Design, Security, Reliability, and Compliance, Networking and Integration Strategies

Topic 2

Low Level Design: Design pattern applications, UML (Unified Modeling Language) diagrams, essential for visualizing and documenting software structures, SOLID principles to ensure software design is robust, maintainable, and adaptable to changes.

Case Studies

Case studies help bridge the gap between theoretical knowledge and real-world scenarios, showing how high-level and low-level design principles are applied in actual software development projects.

Case Study Categories :

1. **Social Media** (Instagram, Whatsapp)
2. **E- Commerce** (Amazon, Flipkart)
3. **Aggregator** (Uber, Swiggy, Zomato)

Module 3: Placement Preparation

1 Mock Interviews

- **Mock Interviews** Conducted by experts from top tech companies like **Google, Microsoft and Amazon**.
- Realistic interview simulation covering coding, problem-solving, system design.
- Focus on technical and behavioral skills.
- Personalized feedback post-interview.
- Resume Upgrade : ATS friendly, Role relevancy

2 100% Placements!

- Direct referrals to **Meta, Amazon, Apple, Google & More**
- Job offers ranging from 40-80+ LPA
- Some of our partner companies: **Google, Microsoft, Apple, Amazon, Facebook (Meta Platforms), Netflix, Adobe, IBM, Oracle, Salesforce, Intel, Cisco, Qualcomm, NVIDIA, VMware, SAP, Dell Technologies, HP Inc., Samsung Electronics, Xiaomi**



Alumni at Top Tech



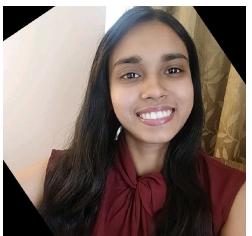
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Computer Scientist
at **Adobe** with **200% Hike!**



Nikita Paliwal [Visit Linkedin](#)
Senior Engineer
at **Salesforce** with **180% Hike!**

Course Mentors



Vimal Chaudhry [Visit Linkedin](#)
Senior Software Engineer
at **Microsoft**, 9+ yrs of exp



Mohit Dubey [Visit Linkedin](#)
Computer Scientist
at **Adobe**, 10+ yrs of exp

Fees Structure

Pay only **₹2,999** for 1 week trial including:

- Access to a **1-week curriculum**: 3 live classes
- Resume and Linkedin Upgarde
- Extensive **Tech Resource Bank** 😊
- **1-on-1 session** with Career Expert from Google

Pay the rest only if you **Love it!**

Total Fee : ₹75,000 + gst (60% pay after placement)

Only 30,000 + gst now