



Transforming Aspirations into Achievement

DATA STRUCTURES & ALGORITHMS

Master Data structures & algorithms with
Expert Guidance!

SELF-PACED | MENTOR LED | PROFESSIONAL





A Brief Story About The Company



ABOUT US

Our team is dedicated to empowering students with the skills needed to thrive in today's ever-evolving job market. We believe that staying ahead requires continuous skill development to meet industry demands.

At innoKNOWVEX, we bridge the gap between current capabilities and the expertise sought by leading organizations. Our platform offers industry-specific training in a professional setting, equipping students with the knowledge and practical skills essential for securing employment in their chosen fields.



About the Program

InnoKnowvex Edu Tech's 3-month program includes two months of industrial training with experts through live sessions & recorded materials.

The final month involves an individual project and a major project with affiliated companies, offering industry exposure and MNC work experience. This program prepares interns for successful careers in the field.

Modes of Training

★ SELF PACED

- Recorded Sessions with doubt-clearing opportunities
- Lifetime access to study material
- Training Certification+Internship Opportunity

★ MENTOR LED

- Live interactive sessions with doubt clearing
- Lifetime access to recordings
- Training Certification+Internship Opportunity

★ PROFESSIONAL

- Live interactive sessions with doubt clearing
- Lifetime access to recordings
- Training Certification+Internship Opportunity+placement assistance



FIRST TWO MONTHS

- Comprehensive industrial training from experts
- Live interactive sessions
- Lifetime access to session recordings
- Hands-on practice
- Mini-projects and exercises
- Real time engagement
- Immediate feedback
- Supportive learning environment
- Mentorship and peer collaboration
- Solid foundation
- Real-world projects in the internship phase

THIRD MONTH

Two key projects:-

1. Minor project focused on implementing and evaluating their skills independently.
2. Major collaborative project, providing industry exposure and experience in a multinational corporation environment.

***Interns work on real-world challenges under the guidance of experienced professionals, gaining valuable insights into industry practices while refining their technical skills. This hands-on experience prepares them for successful careers, giving them a competitive edge in the job market.**



Explore the **CAREER PATHS**

**Software
Development**

**Competitive
Programming**

**Machine
Learning**

**Systems
Programming**

**Cloud
Computing**

**Data
Engineering**

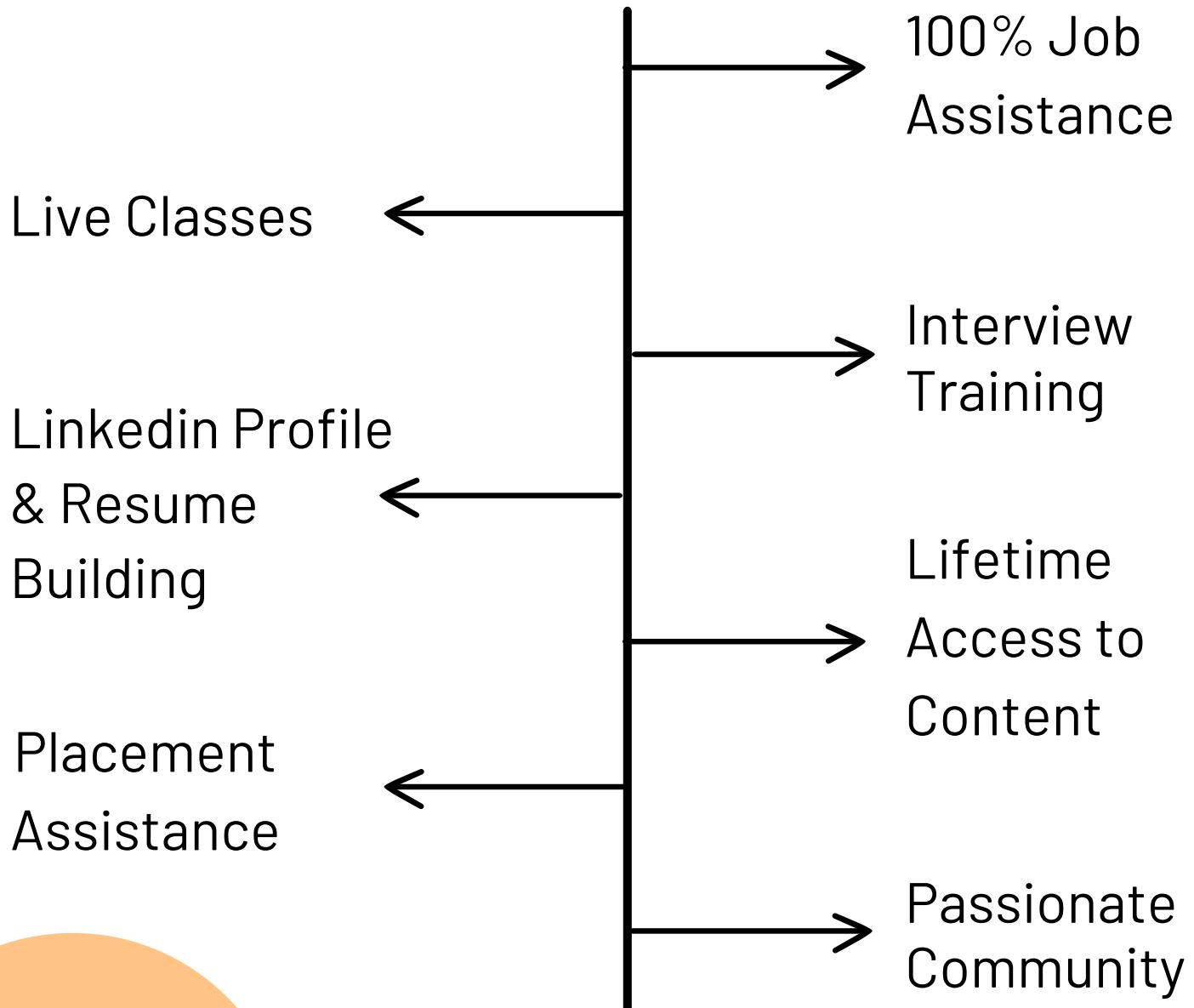
**Backend
Development**

**Blockchain
Development**

DevOps

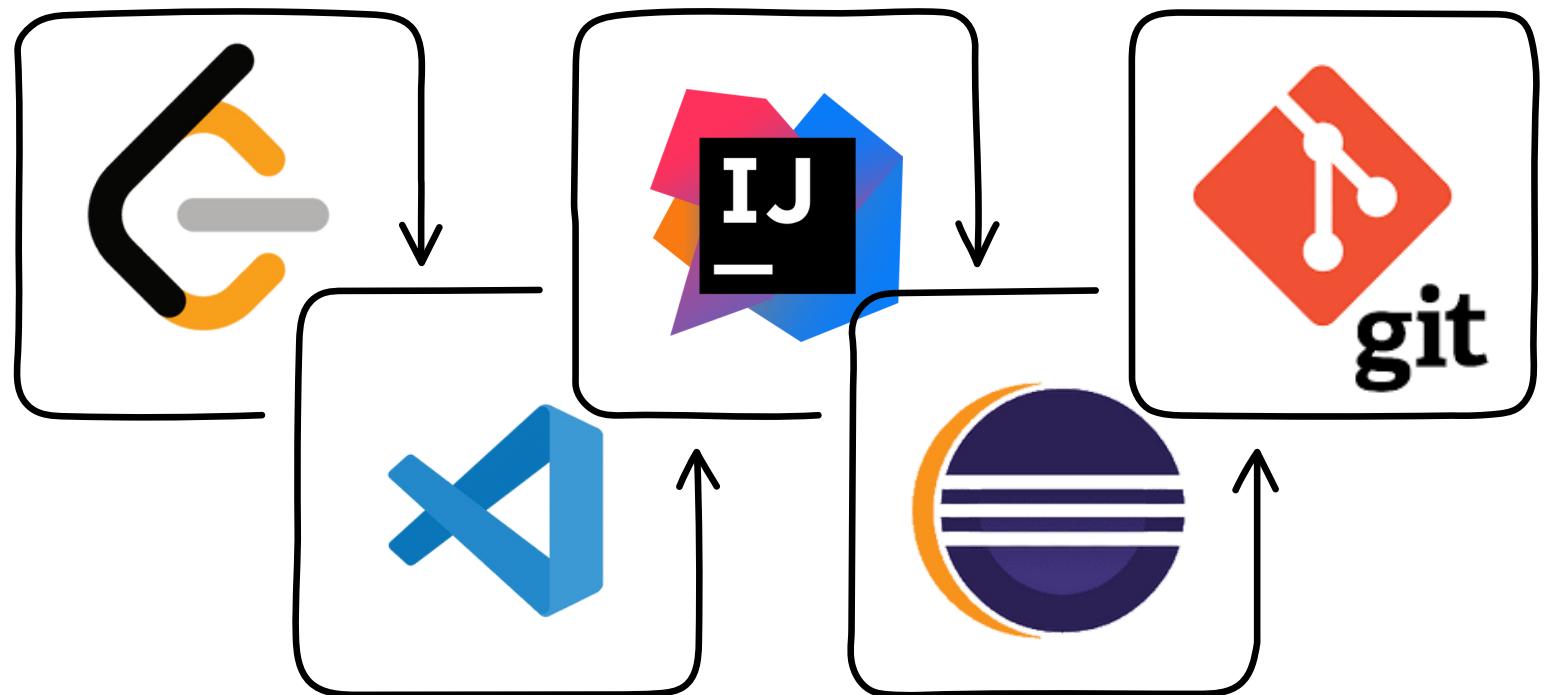


WHY US?



TOOLS

You will learn





KEY HIGHLIGHTS OF PROGRAM

Problem
Solving

Optimized
Code

Core Structures

Algorithm
Design

Sorting/Search
Algorithms

Recursion
Mastery

Graph Algorithms

Dynamic
Programming

Greedy
Methods

Real-world
Applications

Interview
Prep

Scalability

Course Curriculum



Week 1- Introduction to Searching and Sorting Algorithms

01

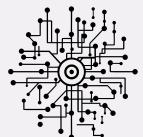
- Searching Algorithms
- Sorting Algorithms



Week 2- Mastering Advanced Sorting Algorithms

02

- Efficient Sorting Techniques
- Insertion-Based Sorting Method
- Divide and Conquer Sorting
- Efficient Divide-and-Conquer Approach
- Building and Sorting with Heaps

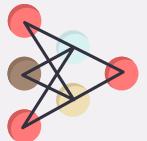




Week 3 - Hashing and Linked List Fundamentals

03

- Hash Collisions
- Hash Function Design
- Collision Resolution Techniques
- Singly Linked List
- Doubly Linked List
- Circular Linked List



Week 4 - Stack and Queue Operations

04

- Stack Operations: Push, Pop, Display
- Queue Operations: Enqueue, Dequeue, Priority queue
- What Is Security Assessment
- What Are The Non-Intrusive Types?
- What Are The Intrusive Types?



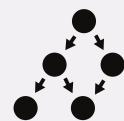
★ RESUME BUILDING WORKSHOP



Week 5 - Tree Data Structures and Binary Search Trees (BST)

05

- Binary Tree Fundamentals: Full Binary Tree (FBT),
Complete Binary Tree (CBT)**
- AVL Tree Concepts: Binary Search Tree (BST) Insertion, BST Traversal
Techniques, BST Deletion**
- Rotation Techniques: LL, RR, LR, RL**



Week 6- Advanced Trees and Graphs

06

- B-Tree Operations: Insertion, Deletion**
- B+ Tree Concepts: Insertion, Deletion**
- Graph Theory: Graph Representation (Adjacency Matrix,
Adjacency List), Breadth-First Search (BFS), Depth-First
Search (DFS)**





Week 7 - Analyzing Time and Space Complexity

07

- Time Complexity Analysis: Big O, Theta, Omega Notation**
- Recurrence Relations: Master's theorem, Recursion tree problem, iterative approach**
- Importance of Risk Management in an Enterprise**



Week 8 - Greedy Algorithms

08

- Knapsack Problem**
- Activity Selection Problem**
- Job Sequencing Problem**



★ SOFT SKILL DEVELOPMENT WORKSHOP



Week 9 - Dynamic Programming Techniques

09

- Subset Sum Problem**
- Optimal Substructure and Overlapping Subproblems**
- Top-Down vs Bottom-Up Approach**
- Classic DP Problems**
- Advanced DP Techniques**



Week 10 - Backtracking and Advanced Problem Solving

10

- Introduction to Backtracking**
- Key Backtracking Problems**
- Optimization in Backtracking**
- Graph Coloring and Hamiltonian Path**
- Branch and Bound vs Backtracking**



HOW TO CRACK TECH INTERVIEWS



CERTIFICATIONS





Pricing

PLAN

Live Sessions>

Get real-time Assistance

₹2,500

Self Paced>

Learn at your own pace

₹2,500



OUR COLLABORATIONS

Capgemini

IBM

wipro

accenture

meesho

SWIGGY

Razorpay

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