



Transforming Aspirations into Achievement

PYTHON + DSA

Master Python with JAVA 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
Engineer**

**Data
Scientist**

**Backend
Developer**

**Machine
Learning
Engineer**

**Algorithm
Developer**

**Quantitative
Analyst**

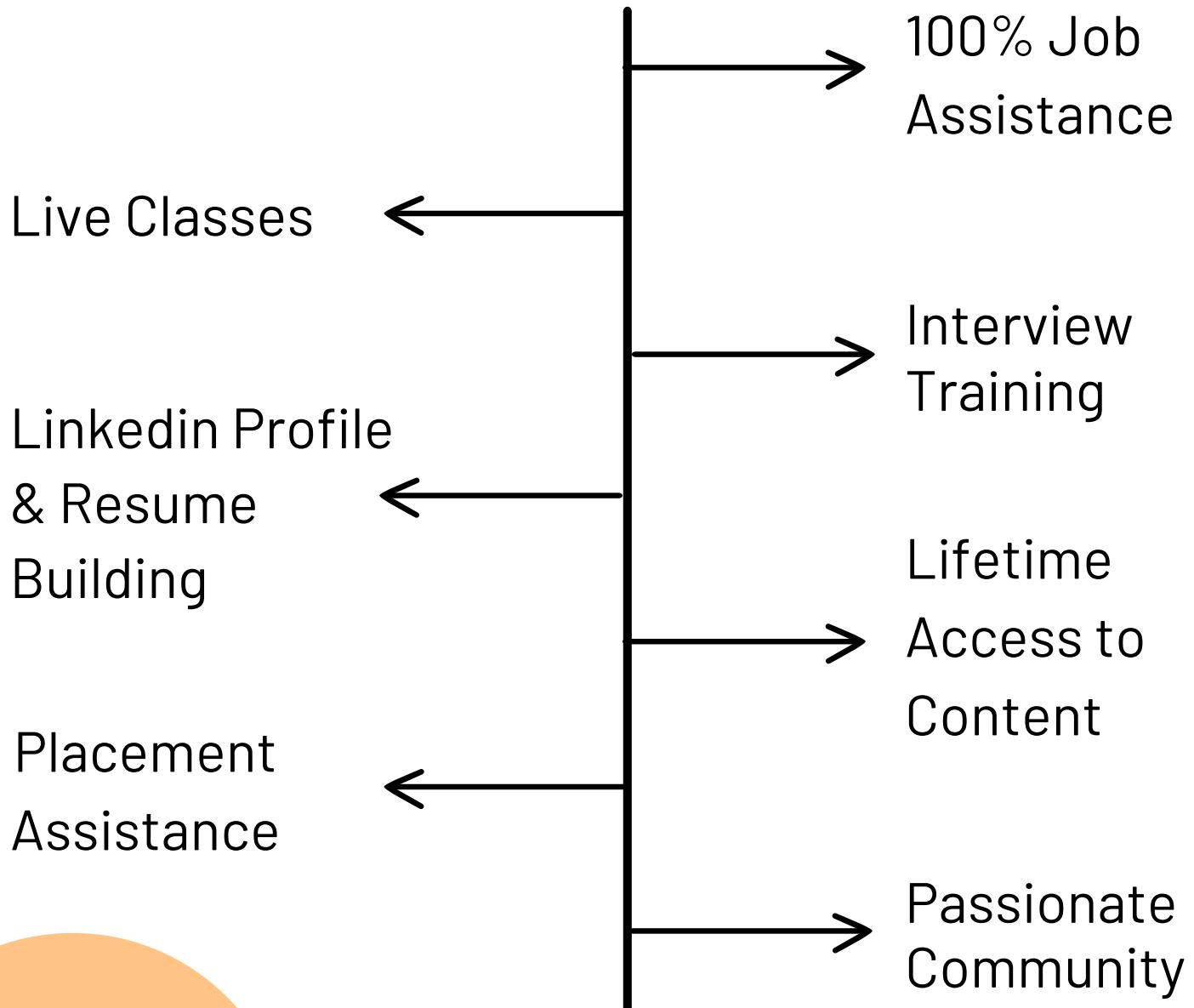
**Technical
Consultant**

**Competitive
Programmer**

**AI
Specialist**

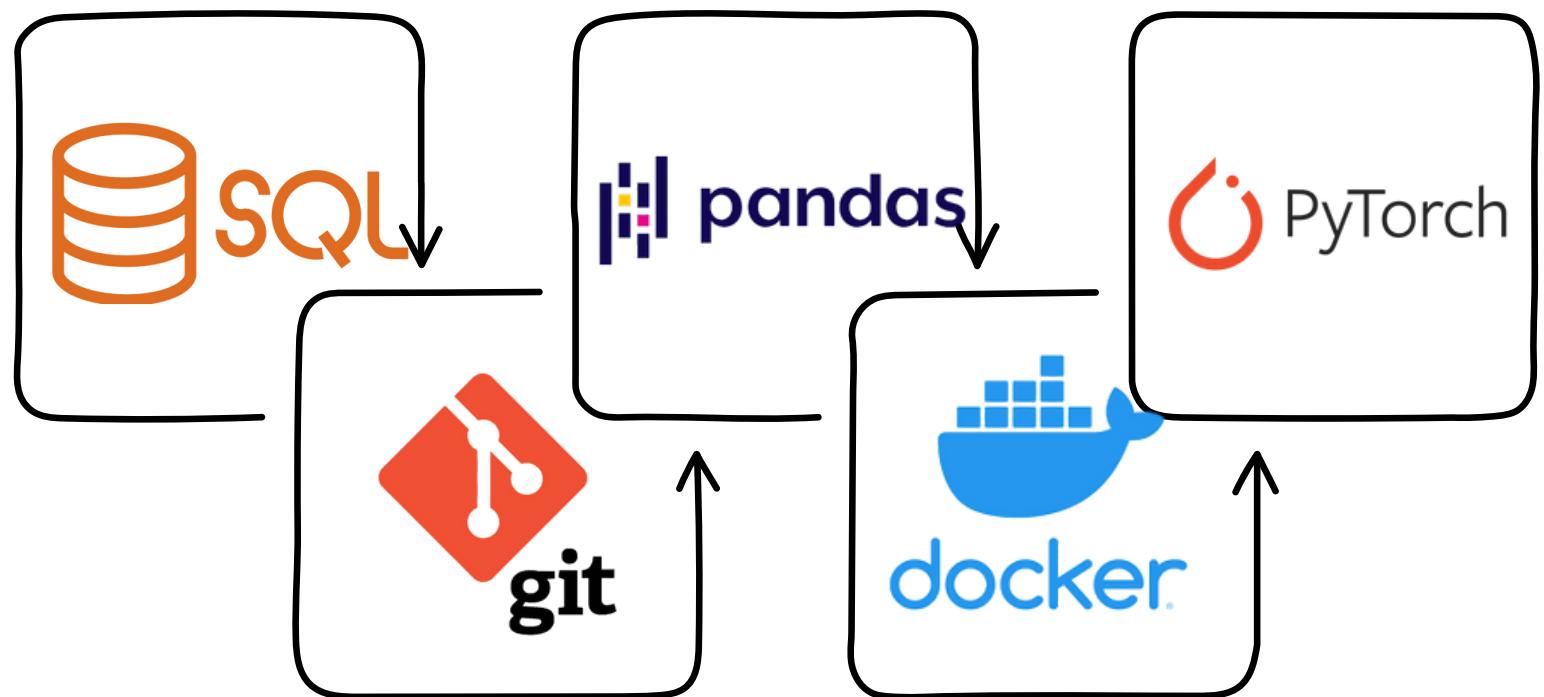


WHY US?



TOOLS

You will learn





KEY HIGHLIGHTS OF PROGRAM

Python Basics

Array
Fundamentals

Searching
Algorithms

Sorting
Techniques

String
Operations

Linked Lists

Stack Data
Structure

Recursion
Concepts

Tree
Structures

Binary Search
Trees

Hashing
Methods

Heaps/Graphs



Course Curriculum



Week 1- Python Fundamentals & Basic Math

01

- Introduction to Python (Installation, Environment Setup)**
- Python Data Types (Numbers, Strings, Booleans)**
- Basic Operators and Expressions**
- Control Flow (If-else, Loops)**
- Basic Mathematical Concepts (Counting digits, Palindrome check)**



Week 2- Introduction to Arrays

02

- Arrays? (Concept and Representation in Python Lists)**
- Array Operations (Accessing, Slicing, Modifying)**
- Basic Array Problems (Finding min/max, Sum)**
- Removing Duplicates from a Sorted Array**



Week 3 - Array Manipulation & Linear Search

03

- Rotating an Array by K Positions
- Reversing Arrays and Subarrays
- Introduction to Searching
- Linear Search Algorithm



Week 4 - Binary Search & Introduction to Sorting

04

- Binary Search Algorithm (Iterative and Recursive)
- Finding First and Last Occurrence in a Sorted Array
- Finding Floor and Ceil in a Sorted Array
- Introduction to Sorting Algorithms



★ RESUME BUILDING WORKSHOP



Week 5 - Fundamental Sorting Techniques

05

- Bubble Sort**
- Selection Sort**
- Insertion Sort**
- Analyzing Sorting Algorithm Efficiency (Time and Space Complexity)**



Week 6- Advanced Sorting & String Basics

06

- Merge Sort**
- Quick Sort (Lomuto and Hoare's Partition)**
- Introduction to Strings in Python**
- String Palindrome Check**



Week 7 - String Algorithms & Linked Lists

07

- Checking for Anagrams
- Leftmost Repeating Character
- Reversing Words in a String
- Introduction to Linked Lists



Week 8 - Linked List Operations

08

- Traversing a Linked List
- Finding the Middle Node of the Linked List
- Reversing a Linked List
- Detecting Loops in a Linked List



★ SOFT SKILL DEVELOPMENT WORKSHOP



Week 9 - Stacks

09

- Introduction to Stacks (LIFO principle)**
- Implementing Stacks in Python**
- Applications of Stacks (Expression evaluation, Balanced parentheses)**
- Implementing Two Stacks in an Array**



Week 10 - Recursion & Introduction to Trees to BST

10

- Understanding Recursion**
- Recursion vs Iteration**
- Introduction to Trees (Binary Trees)**
- Tree Traversals (In-order, Pre-order, Post-order)**



Week 11 - Binary Search Trees & Hashing

11

- Introduction to Binary Search Trees (BST)**
- BST Operations (Insertion, Deletion, Searching)**
- Introduction to Hashing**
- Hashing Techniques and Collision Resolution**

★ HOW TO CRACK TECH INTERVIEWS



Week 12 - Heaps & Graphs

12

- Introduction to Heaps (Min-Heap, Max-Heap)**
- Heap Operations (Insertion, Deletion)**
- Introduction to Graphs (Directed, Undirected)**
- Graph Representation (Adjacency Matrix, Adjacency List)**



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

PhonePe

boAt



COMPANY DETAILS

Address

Hustlehub SB01, WJ8G+XWP, 1st Cross Road,
Santhosapuram, 1st Block Koramangala, HSR Layout
5th Sector, Bengaluru, Karnataka 560034

Contact

+91 99635-68097

Email

innoknowvex@gmail.com

Website

www.innoknowvex.in