KodNest

Java and **Python** **Full-stack** Development



Online & Offline



CONTENTS

01 About KodNest

03 Why KodNest?

06 Your Career paths

07 Tech - Stack

21 Projects

23 Unlock Your Potential

KodNest



Transforming tech education

+91 8095000123

www.kodnest.com

hello@kodnest.com

KodNest

Transforming Tech Education

In a world that's constantly evolving, dreams are the sparks that ignite the flame of change. At KodNest, we believe that every student, no matter their background, has the right to dream big and aspire to greatness. We don't just believe in dreams; we believe in the power of turning those dreams into reality.

Our mission at KodNest is to democratize tech education, making it accessible, affordable, and achievable for everyone. We believe that education is more than just acquiring knowledge. It's about sparking curiosity, nurturing talent, and unlocking potential. At KodNest, we don't just prepare you for a job in tech, we prepare you for a thriving career, a lifelong journey of growth and learning.

Life may not always equip us with the same starting point, but at KodNest, we believe in the power of dreams. Regardless of your background, if you dare to dream big, we promise to stand by you. Our dedicated team of mentors and trainers work tirelessly to bring out the best in you, transforming your aspirations into reality.

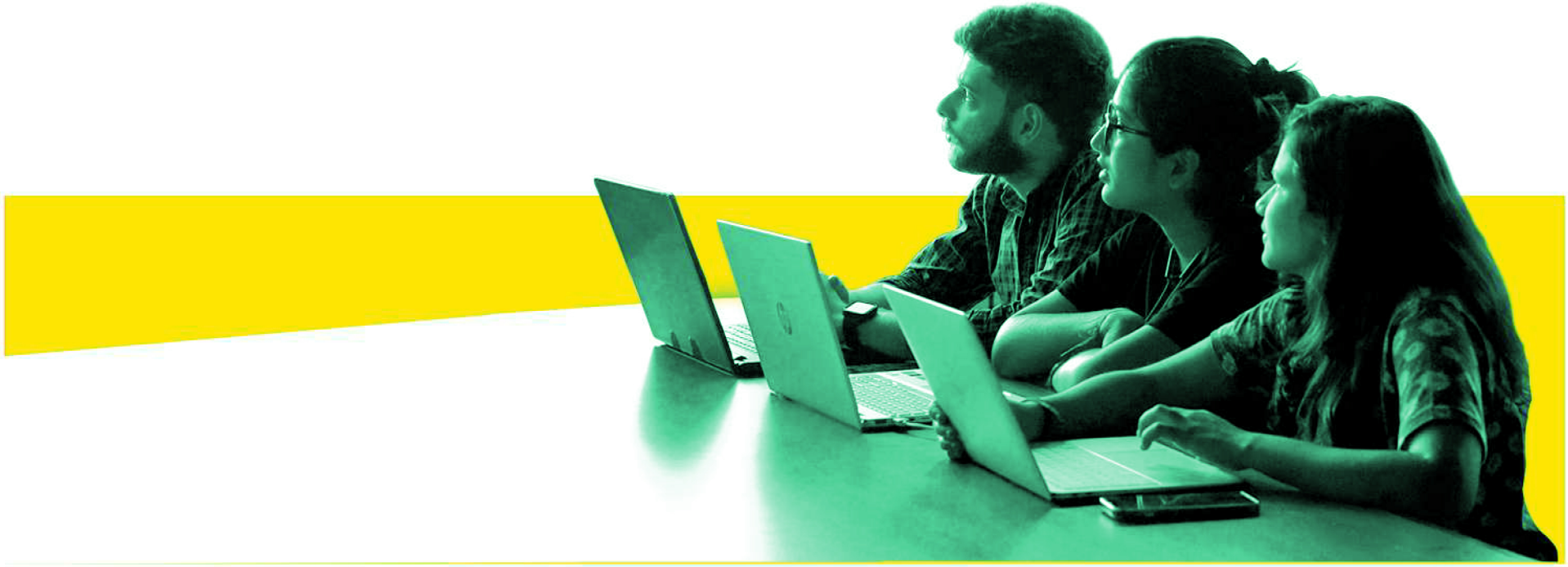
At KodNest, we're not just committed to your education - we're committed to your success. With our industry-aligned curriculum, state-of-the-art infrastructure, and unparalleled placement support, we ensure that the world of opportunities is at your fingertips. So, step into the world of KodNest and let us together redefine what's possible. Because at KodNest, we believe that every dream deserves a chance to soar.

Welcome to KodNest - where dreams meet determination, and aspirations meet achievement. Welcome to your future in tech.

Join us at KodNest - Let's dream, learn, innovate, and succeed - together.

Why KodNest

Because Your Tech Career Deserves the Best



Why KodNest

Your Path to Excellence

Unleash your potential with KodNest, where we don't just teach - we inspire. We empower you to dream, dare, and conquer the tech world with confidence and proficiency.

Unlimited Placement Support

We provide endless support until you secure your First Dream Job.

Affordable Quality Education

We believe in breaking barriers, not your bank balance. Offering high-quality education at an affordable cost, we ensure that dreams are not bound by finances.

Cutting-Edge Course Content

Our curriculum is designed with an eye on the future, mirroring the latest industry trends and technologies.

Stay ahead of the curve with KodNest.

Technology-Driven Learning

Technology is the heart of our teaching methodology. With our exclusive KodNest app, you have access to all training materials and assessments at your fingertips.

Hands-on Experience

Dive into the industry with our practical, real-world projects. Apply your newfound skills and hit the ground running from day one of your new job.

Why KodNest

Personalized Mentorship



Learn without fear, knowing you have a mentor to guide you. We provide individual mentorship to ensure you conquer every obstacle on your path to success.

Our Flexibility, Your Comfort



With both online and offline courses, flexible payment options, and open eligibility, we've made sure that our courses cater to everyone.

Our Courses



We offer two comprehensive courses - MCP1 (Java and Python Full Stack Development) and MCP2 (KodNest Premium Testing Module), designed to equip you with the essential skills for software development and testing.

Our Clientele



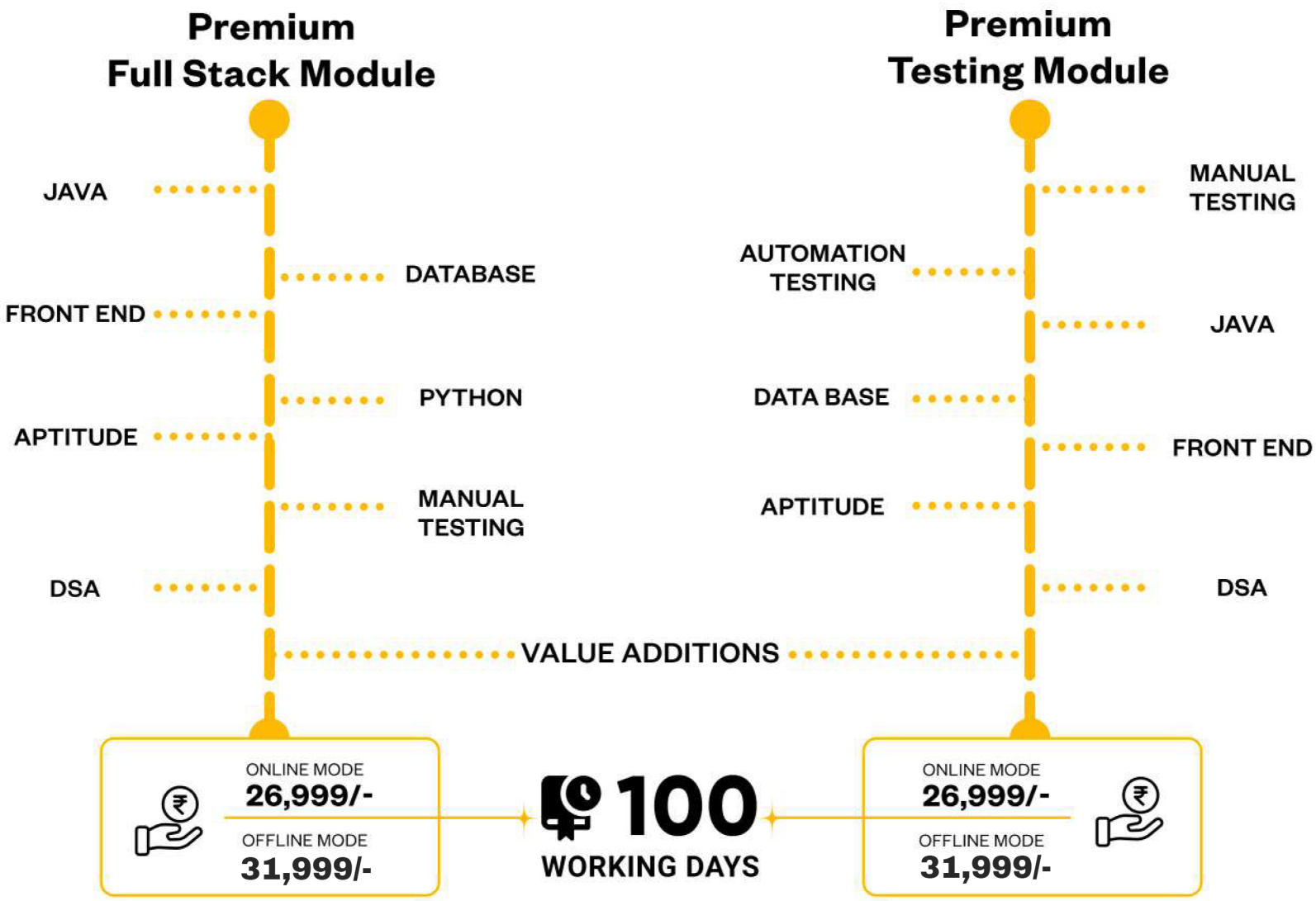
Our students have been placed in reputed companies across the industry, including Altimetrik, Amazon Data Services India Private Limited, Altisource, Capgemini, IBM, Intellect Design Arena Limited, and many more.

Lifetime Access to Course Materials



Knowledge is timeless, and so is our course material. Gain lifetime access to course materials and stay updated, always.

Your Career Paths



Tech-Stack

KodNest Premium Course Modules



JAVA

MCP 1 | MCP 2

JAVA FUNDAMENTALS

- Introduction to Java
- Basics of Programming in java
- Data types
- Operators
- Methods
- Cracking Coding (Beginners)

DIVING INTO OOPS

- Introduction to OOP
- Static
- Inheritance
- Constructors
- Encapsulation
- Polymorphism
- Abstraction
- Packages

PROGRAMMING ESSENTIALS

- Control constructs
- Cracking Coding (Intermediate)

DATA STRUCTURES & ALGORITHMS

- Arrays
- Algorithms
- Strings
- Collections framework
- Cracking Coding (Advanced)

ADVANCED JAVA

- Exception handling
- Multi-threading

JAVA MCP 1 | MCP 2

DESIGN PATTERNS

- Introduction to design patterns
- Commonly used design patterns

FRAMEWORKS LAYERS

- J2EE Fundamentals
- Client Server Architecture
- Web Application Architecture
- Introduction to Java Frameworks

HIBERNATE FRAMEWORK

- What is ORM?
- Introduction to Hibernate Framework
- Maven tool
- Hibernate Configuration and SessionFactory
- Entity Mapping
- Hibernate Query Language (HQL)
- Caching and Performance Optimization

SPRING BOOT FRAMEWORK

- Spring Tool Suite
- Setup and Installation
- Spring Core and IoC Container
- Dependency Injection (DI) in Spring
- Autowiring and Annotations
- Bean Life Cycle
- Aspect-Oriented Programming (AOP) with Spring
- Spring MVC
- Spring Boot Actuator

JAVA MCP 1 | MCP 2

API'S

- Spring REST: WebServices
- Spring REST : JSON Data Binding
- Spring REST : API Design Practices
- SpringBoot : REST CRUD API with Hibernate
- Swagger Documentation
- Microservices v/s Monolithic services

UNIT TESTING IN JAVA

- Introduction to unit testing and JUnit
- Writing test cases and test suites

JAVA NETWORKING

- Basics of networking in Java
- Sockets and ServerSockets

DATABASE MCP 1 | MCP 2

INTRODUCING TO SQL

- Significance of Data
- What is a Database & DBMS?
- Relational DBMS v/s Non-Relational DBMS
- What is SQL?

My SQL

- MySQL Overview
- DataTypes and Operators
- Constraints
- DDL Statements
- DML Statements
- Stored Procedures and Functions
- Indexes and Querying
- Triggers
- Joins

DATABASE MCP 1 | MCP 2

- Normalization
- Transaction Management
- Subqueries and nested queries
- Concurrency Control

MONGODB

- MongoDB Overview
- Different types of Storing the Data
- Creating the Collection and Document
- Inserting the Values
- Different ways of Viewing the Data
- Data Modeling
- Schema Design
- Replica
- Index
- Sharding
- CRUD Operations
- Aggregation Framework

ORACLE

- Overview of Oracle Database
- Data types in Oracle
- Constraints
- DDL commands: CREATE, ALTER, DROP
- DML commands: INSERT, UPDATE, DELETE, TRUNCATE
- Queries and Sub-queries
- Database Objects

MCP 1 | MCP 2

UI DEVELOPMENT

MODULE 1: THE WORLD OF WEB DEVELOPMENT

- Basics of Front-End Development

MODULE 2: HTML: STRUCTURING A WEB PAGE

- Getting Started with HTML
- HTML Basic Tags
- Lists in HTML
- Tables in HTML
- Multimedia Tags in HTML
- More HTML Elements
- HTML Forms
- Semantic Tags
- SEO basics

MODULE 3: CSS - STYLE A WEB PAGE

- Getting Started with CSS
- CSS Basics
- CSS Box Model
- Positioning and Flexbox
- Grid Layouts
- Responsive Design
- Transitions and Animations

MODULE 4: JAVASCRIPT - PROGRAMMING THE WEB

- Introduction to JavaScript
- Control Structures
- Functions and Scope
- Promises & Closures
- DOM Manipulation
- Events and Event Handling
- Arrays and Objects
- Asynchronous JavaScript

GIT AND VERSION CONTROL

- Introduction to Git
- Committing changes
- Pushing to a remote repository
- Dealing with merge conflicts
- Git installation and setup
- Basic operations in Git
- Branching and Merging
- Pushing to remote repositories

REACT

- Introduction to React
- Setup and installation
- JavaScript Frameworks and Libraries
- JSX syntax
- State and Lifecycle Methods
- Handling Events in React
- React forms and input validation
- React router and client-side routing
- Redux for state management
- Asynchronous programming
- HTTP protocol and RESTful APIs

TESTING IN REACT

- Introduction to testing React components
- Jest
- React Testing Library

REACT DEVELOPER TOOLS

- Redux DevTools
- React DevTools

MCP 1

PYTHON

PYTHON INTRODUCTION

- Fundamentals of Python Programming
- Features of Python
- Data types
- Control Constructs
- Methods
- Object Orientation

PYTHON DEEP DIVE

- String overview
- String manipulation
- String in-built methods
- Encapsulation
- Constructors
- Inheritance
- Method Overriding
- Polymorphism
- Access Modifiers
- Decorators
- Operator Overloading
- Magic Methods
- Abstraction

FILE HANDLING AND DATABASES IN PYTHON

- File Operations
- SQLite3
- PyMongo

ADVANCED PYTHON CONCEPTS

- Functions & Lambda in Python
- Comprehension in Python
- Modules
- Data Mangling

PYTHON MCP 1

- Exception Handling
- Multithreading

PYTHON FRAMEWORKS

- Django Project Structure and Configuration
- URL Routing and Views
- Models and Databases
- Django Admin Interface
- Building Dynamic Web Forms
- Django Templates
- Django Authentication and Authorization

MANUAL TESTING MCP 1 | MCP 2

INTRODUCTION TO SOFTWARE TESTING

- Software Testing Overview
- Roles and Responsibilities of a Testing Engineer
- Testing Methodologies
- Testing Levels
- Types of Testing

MANUAL TESTING

- Test Case Design Techniques
- Test Planning and Execution
- Defect Tracking and Management
- Test documentation
- Quality Assurance and Quality Control
- Risk-Based Testing and Test Prioritization
- JIRA and its Applications

AUTOMATION TESTING MCP 2

AUTOMATION TESTING

- Benefits and Drawbacks of Automation Testing
- Test automation process
- Test automation tools
- Automation Testing Frameworks
- Page Object Model (POM)
- Continuous Integration and Continuous Testing
- Applications of Stacks

SELENIUM WEBDRIVER

- Selenium WebDriver architecture
- Introduction to selenium
- Setup and Installation
- Launching browser
- Handling web elements
- Locators in Selenium
- Controlling keyboard activities
- Controlling mouse activities
- Action
- Synchronization in Selenium
- Frames and Alerts
- Types of Wait

API TESTING

- API Testing Concepts
- API Testing Tools
- Test Case Design for API Testing
- Automation of API Testing

ARRAY DATA STRUCTURE

- Introduction to Arrays
- Operations on Arrays
- Multidimensional Arrays

STACK DATA STRUCTURE

- Introduction to Stacks
- Stack Operations
- Applications of Stacks

QUEUE DATA STRUCTURE

- Introduction to Queues
- Queue Operations
- Types of Queues
- Applications of Queues

CIRCULAR QUEUE DATA STRUCTURE

- Introduction to Circular Queues
- Circular Queue Operations

SINGLY LINKED LIST DATA STRUCTURE

- Introduction to Singly Linked Lists
- Operations on Singly Linked Lists

DOUBLY LINKED LIST DATA STRUCTURE

- Introduction to Doubly Linked Lists
- Operations on Doubly Linked Lists

TREE LINKED LIST DATA STRUCTURE

- Introduction to Trees
- Types of Trees
- Tree Traversal
- Applications of Trees

DSA MCP 1 | MCP 2

SEARCHING AND SORTING ALGORITHMS

- Binary Search
- Quick Sort
- Merge Sort
- Insertion Sort
- Selection Sort
- Bubble Sort
- Radix Sort
- Heap Sort

GENERAL ALGORITHMS

- Dynamic Programming
- Greedy Algorithms
- Backtracking Algorithms
- Divide and Conquer Algorithms

APTITUDE MCP 1 | MCP 2

NUMBER SYSTEM

- Number System Basics
- Divisibility Rules
- Remainder Concept
- L.C.M. and H.C.F
- Unit digit

RATIO AND PERCENTAGE

- Ratio
- Partnership
- Problems on Ages
- Percentage
- Profit and Loss
- Discount
- Simple Interest
- Compound Interest
- Average Mixture Alligation

APTITUDE MCP 1 | MCP 2

WORK, TIME AND DISTANCE

- Time and Work
- Time and Distance
- Area Mensuration

COUNTING

- Permutations and Combinations
- Probability

LETTER AND NUMBER BASED REASONING

- Find the wrong number
- Coding Decoding
- Number series
- Odd man out
- Missing Number

CALCULATING REASONING

- Clocks
- Calendars
- Ranking

NON-VERBAL REASONING

- Missing Letter
- Mirror Images
- Figure Based Problems

VERBAL REASONING

- Blood Relations
- Direction Sense
- Venn Diagrams
- Syllogism
- Seating Arrangements
- Truth and Lie based problems

DATA

- Data Interpretation
- Data Sufficiency

CORPORATE SKILLS

- Introduction To Corporate Skills
- Resume Customization
- Corporate Etiquettes
- Networking Activity
- Reading & Analysing
- Building Conversations
- GD / JAM
- HR / Managerial Round
- Presentation & LinkedIn
- Verbal

Projects

- JAVA Projects
- Testing Projects
- SQL Project
- Front-End Technologies Projects
- Python Projects



Java Projects

1. BankSecure Pro

Description: Build expertise in creating banking platforms with BankSecure Pro, a Java-based solution offering comprehensive tools for bank operation management, including transactions and customer interaction

2. EduManager 360

Description: Learn to streamline educational management with EduManager 360, integrating student, financial, and administrative functionalities into one efficient platform

3. SalesSavvy

Description: Craft a full-stack e-commerce solution with SalesSavvy using J2EE, Spring Boot, SQL, and advanced front-end technologies for business operations, customer interactions, and online sales

Testing Projects

4. ShopSecure

Description: Engage in ShopSecure, a project focused on rigorous testing of e-commerce web applications. Ensure top-tier functionality, usability, security, and performance for online stores.

5. BugBuster

Description: Discover BugBuster, a project that automates application testing.Enhance efficiency and accuracy in bug detection and ensure high software quality with automated scripts and testing frameworks.

SQL Projects

6. CampusSQL

Description: Learn to build CampusSQL, an SQL-driven system designed to streamline educational administration. Efficiently manage student data, faculty engagement, and course management through a user-friendly database platform.

Front-End Technologies Projects

7. Workfolio

Description: Create a sleek, static website with Workfolio using HTML and CSS. Perfect for showcasing your work, achievements, and personal brand in a compelling format

8. TaskBuddy

Description: Develop an interactive to-do list app with TaskBuddy using HTML, CSS, and JavaScript and React. Manage daily tasks with features like prioritisation, custom categories, and progress tracking

9. KodChat

Description: Build KodChat, an AI-powered chatbot application. Design an intuitive chat UI and implement advanced features to deliver intelligent and responsive conversations

Python Projects

10. GameMaster

Description: Create GameMaster Classic, a desktop application reviving classic arcade games using Python. This multi-game platform blends nostalgic gameplay with contemporary programming techniques

11. MealMate

Description: Develop mealMate, a comprehensive full-stack web application that links diners with local eateries through an efficient online ordering system, built with Python, Django, and modern web technologies

Unlock Your Potential with KodNest



Unlock Your Potential with KodNest Full-Stack Development



Duration: Embark on a transformative journey of **100 working days** with our all-encompassing Full-Stack Development Program. This tailored duration ensures you acquire proficiency in all necessary skills, apply them pragmatically, all while harmonizing your learning with your daily responsibilities.



Eligibility: Beginners, intermediates, professionals - all are welcome here! All you need to join this tech revolution is a **Bachelor's Degree** with a minimum of 50% or equivalent passing marks. We'll help you navigate the rest.



Program Fees: Boost your career trajectory with our cost-effective program fees. For the digital natives preferring online mode, it's just **INR 26,999/-,** and for the traditional learners choosing offline mode, it's **INR 31,999/-.** These inclusive fees cover everything you need to fuel your coding ambitions!

WHERE OUR ALUMNI WORKS

amazon	aptean	greytHR	BORNGROUP	BOSCH	carwale	Western Digital
marlabs	MasterCard	Cogno AI	amiti	redBus.in	HTC Global Services	happiest minds
leadsquared	emudhra	CSS CORP	hatio	LG	TARGET	Clientèle
nissan digital	CONDUENT	GLIDER	THIS	NEC	ZETA	PrimeSoft
intellect	naaptol	jade GLOBAL	SUBEX	Neutara	amdocs	ALTIMETRIK
DAIMLER TRUCK	digit	Atos	INTUIT	birlasoft	TESCO	virtusa

NEC Software Solutions India

TOSHIBA	NTT DATA Trusted Global Innovator	SASKEN	pratian connect to infinity	ThermoFisher SCIENTIFIC	Prodapt	publicis sapient
RAPIDD TECHNOLOGIES	Tech Mahindra	REBIT	EMIDS	Persistent	SUN MOBILITY	synchronoss
UrbanPro Discover • Learn • Grow	UST Global	welldoc	thoughtworks	eurofins	perfaware	DASSAULT SYSTEMES
MICRO FOCUS	AT&T Business	Netcracker An NEC Company	teradata.	Bentley Advancing Infrastructure	Xebia CREATING DIGITAL LEADERS	YASH Technologies More than what you think.
netmeds.com India Ki Pharmacy	ZOHO	BharatPe	neustar	AND MANY MORE...		

Student Success Stories



BALRAM ROY
Trainee software Engineer at Citius Tech

" I had a dream of becoming successful and standing on my own feet. My name is Balram Roy, and I hail from West Bengal. I believed that kodnest could help me turn my dream into reality by assisting me in finding my dream job."



VIJAYA MUDIVEERANNANAVAR
Member Technical at Broadridge

"Kodnest transformed my Java journey from fear and doubt to empowerment and opportunity. Their support and resources fueled my confidence and opened doors to a brighter future"



SANJAY C
Graduate Trainee at DAIMLER TRUCK

"Kodnest fueled my ambition to succeed, providing unwavering commitment and comprehensive training in various programming languages. They paved the way for my skill enhancement and career advancement."



LAXMIPRIYA
Q A Enginer at Dish Networks

"Fueling my childhood fascination with computers, I embarked on the path of Electronics and Communication Engineering, guided by the belief that it would lay a strong foundation for my technological pursuits."



ASHUTOSH JHA
Graduate Trainee at DAIMLER TRUCK

"Embracing the power of hard work and determination, I, Ashutosh Jha, ventured beyond my comfort zone, leaving behind familiar surroundings to pursue my UG in Punjab. I relentlessly sought new opportunities and embraced challenges along my journey."



SAHANA Y S
Associate Software Engineer at BOSCH

I'm Sahana, an enthusiastic student with a strong drive to achieve something meaningful in life. Since I've always wanted to be a developer, I was actively searching for the right opportunity to kick-start my career."

Let's Connect Through

Scan for more details

KodNest Private Limited.

CPR Tower, 4th & 5th Floor, above Reliance Fresh,
Stage 2, BTM Layout, Bengaluru, Karnataka 560076

+91 8095 000 123

hello@kodnest.com