



Vishlesan i-Hub
Indian Institute of Technology, Patna

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Learn in తెలుగు

Certification in BuildStack AI

FROM VISHLESAN i-HUB, IIT PATNA



Program overview

Format	Online
Language	Telugu
Duration	4 Months
Commitment	8–10 Hrs/Week
Certification	Vishlesan i-Hub, IIT Patna

What will you learn?

This 4-month online programme designed for college students and freshers to become role-ready software engineers and product builders. It combines core programming fundamentals in JavaScript and Python with full-stack development, AI-assisted coding workflows, and real-world deployment practices. By the end of the programme, learners build and ship a complete product as a capstone, creating a strong portfolio for entry-level developer roles.

Toolkit

PYTHON

REACT

CURSORS

GITHUB

JAVASCRIPT

CHATGPT

Why choose this course?

- Taught in Telugu by expert faculty and industry mentors
- Work on real-world capstone projects designed to solve practical challenges
- Get placement assistance, resume reviews, and coaching
(Eligibility: 7+ CGPA and 65% attendance)
- Receive a recognized certification from Vishlesan i-Hub, IIT Patna
(Eligibility: Minimum 65% overall attendance and 30% marks in cumulative evaluations score)

COURSE DETAILS

Foundation

Foundation builds programmer fluency and full-stack craft over 10 weeks: JavaScript, web fundamentals, Git, AI-assisted coding, React frontend, and Python FastAPI backend, culminating in shipped full-stack applications.

Module wise curriculum

- **Module 1: Programming Foundations**
JavaScript fluency through variables, control flow, functions, arrays, and objects.
COMPUTATIONAL THINKING • LOGICAL REASONING • PROBLEM DECOMPOSITION
- **Module 2: Web Fundamentals**
HTML semantics, CSS layout, and Tailwind for responsive, accessible interfaces.
VISUAL STRUCTURE THINKING • ACCESSIBILITY AWARENESS
- **Module 3: Version Control and Collaboration**
Git, GitHub, branching, pull requests, and code review etiquette.
TEAM COLLABORATION • CODE REVIEW DISCIPLINE
- **Module 4: AI as Coding Partner**
Cursor and Claude Code as daily collaborators for prompt patterns and AI hygiene.
AI WORKFLOW FLUENCY • CRITICAL VERIFICATION HABITS
- **Module 5: Frontend Fundamentals**
React, components, hooks, state, and routing for real interactive web apps.
UI ARCHITECTURE THINKING • COMPONENT-BASED DESIGN
- **Module 6: Backend Fundamentals (Python)**
Python with FastAPI, REST APIs, and request and response design.
API THINKING • DATA FLOW MODELLING

Tools Acquired

JavaScript • HTML • CSS • Tailwind • React • Python • FastAPI • Git • GitHub • VS Code • Cursor • Claude Code • Vercel

Roles unlocked

Software Engineer Intern • Trainee Software Engineer • Junior Backend Developer (Python) • Junior Frontend Developer • Junior Web Developer

COURSE DETAILS

Core expertise

Industry Readiness Spotlight introduces autonomy-mode AI thinking and algorithmic problem-solving practice for entry-level technical screens, plus capstone integration where learners ship a real Indian-context product end to end.

Module wise curriculum

- **Module 1: Vibe Coding and Spec-Driven Dev**
Two autonomy modes for AI-augmented work, with verification loops and collaboration patterns.
AUTONOMY-SLIDER THINKING • SPEC WRITING DISCIPLINE
- **Module 2: DSA and Algorithmic Problem Solving**
Arrays, strings, recursion, and time-complexity reasoning calibrated to entry-level technical screens.
ALGORITHMIC THINKING • INTERVIEW READINESS
- **Module 3: Capstone Integration**
Ship an Indian-context product end to end: spec, build, test, and deploy with CI/CD.
END-TO-END OWNERSHIP • PRODUCT THINKING • PORTFOLIO CRAFT

Tools Acquired

System Design Canvases • Excalidraw • Capstone Deployment Stack (Full Integration) • LeetCode • HackerRank

Roles unlocked

Software Development Engineer (Entry-Level) • Associate Product Engineer • Junior Full-Stack Engineer at Product Startups • Junior AI Application Developer • Trainee Engineer in AI-Augmented Teams

COURSE DETAILS

Industry specialisation

Core Essentials adds the data, deployment, testing, and Software 3.0 disciplines that turn classroom code into shipped products: PostgreSQL, Pytest, Docker, AWS deployment, CI/CD, and LLM API workflows.

Module wise curriculum

- **Module 1: Database Fundamentals**
PostgreSQL via Neon: schemas, queries, joins, and data modelling for real apps.
DATA MODELLING INTUITION • QUERY THINKING
- **Module 2: Testing and Code Review**
Pytest fundamentals, the test pyramid, and verifying AI-generated code critically.
QUALITY MINDSET • CRITICAL VERIFICATION
- **Module 3: Deployment and Operations**
Docker containerisation, AWS deployment, and GitHub Actions CI/CD pipelines.
PRODUCTION READINESS • OPERATIONAL THINKING
- **Module 4: Software 3.0 Essentials**
LLM APIs, prompts as programs, RAG pipelines, and the eval discipline.
AI engineering mindset • Eval-driven development

Tools Acquired

PostgreSQL (Neon) • Pytest • Docker • AWS Free Tier • GitHub Actions • LangChain • Chroma • OpenAI API • Claude API

Roles unlocked

Junior Full-Stack Engineer • Junior Backend Engineer (Python & FastAPI) • Junior Software Engineer at Early-Stage Startups • Application Developer (Python & React Stack)

Meet our instructor team



Dr. Tarachand Amogth

Assistant Professor, IIT (ISM) Dhanbad

Builds data pipelines using Python, focusing on structured and scalable data engineering workflows



Sainath Reddy Sankepally

Ex-CRED, Swiggy

AI researcher with experience at CRED and Swiggy; research stints at MIT, Harvard, and NUS; published in machine learning



Balaji Chippada

Warner Bros Discovery

Builds data-driven solutions and applies scientific methods to develop real-world products and business applications



Shruti Grover

Software Engineer, Microsoft

Software engineer at Microsoft with experience in full-stack development, system design, and scalable product engineering



Hritik G

Senior Software Engineer, IIT Mandi

B.Tech from IIT Mandi with experience in software and web development, building scalable engineering solutions

Note: Instructors teaching your batch may change based on specific module expertise, or circumstances such as personal emergencies, unavailability etc.

What sets BuildStack AI with Vishlesan i-Hub, IIT Patna apart?

Certification

Earn a prestigious certificate from Vishlesan i-Hub, IIT Patna, enhancing your career credentials.

Industry-Relevant Skills

Develop in-demand skills using industry-standard tools and workflows.

Networking Opportunities

Connect with industry leaders and mentors who provide valuable insights to help advance your AI career.

Placement Opportunities

Interview support and expert coaching to maximize job placement chances. (Eligibility: 7+ CGPA and 65% attendance)

How will Masai help you?

• Placement Opportunities

Get guaranteed interviews and personalized career support, including resume preparation and mock interviews

Eligibility: 7+ CGPA and 65% attendance in the program

• Real-Time Learning Ecosystem

Experience a constantly evolving curriculum with live classes and instant academic assistance, designed to keep pace with industry advancements.

• Industry Integration and Projects

Participate in hands-on industry projects guided by distinguished faculty and instructors from top experts, ensuring practical and relevant skills development.

Vishlesan i-Hub, IIT Patna

National Innovation Hub: Vishlesan i-Hub at IIT Patna is part of a national mission, advancing AI in speech, video, and text analytics for sectors like health, education, and security.

Premier Technical Institute: IIT Patna is one of India's top engineering institutes, known for its cutting-edge research and strong academic foundation.

Strong Industry & Research Ecosystem: With active collaborations, incubators, and innovation hubs, IIT Patna bridges academia and industry to drive real-world impact.



Admission process



Clear Qualifier Test

Clear the qualifier test to be eligible for the program



Complete Counselling

Only shortlisted candidates go through the counselling process



Start Learning

Learn from India's top educators and stand out from the crowd

Fees structure

Qualifier Test Fee Non-refundable	₹99
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	Option 1	Option 2
	Upfront	EMI (Through our NBFC partners)
Registration Fee Non-refundable	₹2,499	₹2,499
Program Fee Non-refundable	₹27,501	₹ 5,940 x 5 months
Total Fees Non-refundable	₹30,000 + GST	₹32,199 + GST

*GST at 18% extra, as applicable

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