ISDM Independent Skill Development Mission NXT

EMPOWERING FUTURES,
SHAPING TOMORROW

★ AI-INTEGRATED COURSE

NXT CERTIFIED AGENTIC AI & MULTI-AGENT SYSTEMS ARCHITECT

Become an expert in autonomous AI systems and architecture!

Duration: 1 Year | **Certificate** · Advanced | **Eligibility:** Suitable for learners with a foundation in programming and a

OVERVIEW OF THE COURSE

Build the skills to design, evaluate, and deploy autonomous AI agents and multi-agent systems with the NxT Certified Agentic AI & Multi-Agent Systems Architect program. This one-year course focuses on agent architectures, orchestration, enterprise retrieval-augmented generation (RAG), and intelligent decision-making workflows. A...

- Hands-on AI agent development
- Focus on multi-agent systems
- Real-world project applications
- Cloud deployment expertise
- Advanced LLM engineering



1 Year	14	5	13
DURATION	SUBJECTS	PROJECTS	TOOLS

JOIN NOW →

WhatsApp us

WE ARE AVAILABLE AT
600+ LOCATIONS

NOT SURE WHICH COURSE IS RIGHT FOR YOU?
Choose the Best Course for You - Try our AI-Powered Career Counselling for FREE

Start free →

YOUR NEAREST ISDM NxT CENTRE
ISDM NxT VADODARA
3rd Floor, ISDM NxT Vadodara , Uma Char Rasta , Vadodara - 390019, Gujarat - 390019
Call / WhatsApp: **7697221728** · ISDM.VADODARA1@GMAIL.COM

Scan to enquire

COURSE CURRICULUM

What you will learn

01 Subjects → | 02 Projects → | 03 Tools → | 04 AI Integration

01 Subjects & modules

12 subjects with the topics you will learn

01 Agentic AI Fundamentals & Architecture

- Agentic AI, Assistants, And Agent Boundaries
- Agent Components, Reasoning, Planning, And Tools
- State, Memory, And Execution Loops
- Workflow Choices And Autonomy Boundaries
- Human Oversight, Approval, And Escalation
- Integrated Architecture And Business Task Design

02 Advanced LLM Engineering for AI Agents

- LLM Capabilities And Prompt Architecture
- Structured Outputs, Tool Calling, And Instructions
- Context Engineering And Model Selection
- Response Validation And Hallucination Controls
- Reliability, Latency, And Cost Optimisation
- LLM Lifecycle, Quality, And Capstone Testing

03 AI Agent Development Frameworks

- Framework Models And Initial Comparison
- LangGraph State, Workflows, Tools, And Lifecycle
- CrewAI Agents, Tasks, Crews, And Tools
- AutoGen Tools, State, And Workflow Patterns
- OpenAI Agents SDK Concepts, Tools, And Sessions
- Cross-Framework Lifecycle, Testing, And Selection
- Applied Agent Projects And Capstone

04 Tool Integration & External Systems

- REST APIs And Function Calling
- Credentials, Permissions And Reliable Calls
- Database And CRM Operations
- Email, Calendar And Event Workflows
- Web Search And Document Processing
- MCP Connections And Integration Testing
- Integrated Workflows, Approvals And Recovery

05 Agent Memory & Knowledge Architecture

- Memory Foundations And Context Lifecycles
- Memory Models, Storage And Vector-Based Memory
- Knowledge Retrieval For Agents
- Advanced RAG For AI Agents
- Memory Summarization, Accuracy And Conflict Handling
- Privacy, Retention And Enterprise Memory Practice

06 Multi-Agent Systems & Orchestration

- Multi-Agent Architecture And Specialisation
- Supervision, Planning, And Task Execution
- Execution Patterns And Agent Communication
- Shared State, Delegation, And Coordination
- Conflict Resolution, Execution Control, Recovery, And Escalation
- End-To-End Multi-Agent Workflow Design

07 Autonomous Planning & Decision Workflows

- Goal Decomposition And Plan Feasibility
- Task Execution And Workflow Routing
- Evidence-Based Decisions And Tool Selection
- Checkpoints, Approvals, And Workflow Review
- Failure Recovery, Retry, And Rollback
- Workflow Success Measurement And Improvement

08 Enterprise AI Agent Applications

- Sales And Marketing Agent Applications
- Customer Support And Scheduling Agents
- HR, Recruitment, And Knowledge Assistants
- Operations And Document Processing Agents
- Research And Business Reporting Agents
- Enterprise Process Fit, Oversight, And Capstone

09 AI Voice Agents & Multimodal Systems

- Audio Fundamentals And Speech Recognition
- Speech Synthesis And Voice-Agent Design
- Real-Time Conversation And Interruption Handling
- Call Transcription And Summarization
- Multimodal Customer-Service Experiences
- Voice Consent, Privacy And Capstone Integration

10 Agent Security, Evaluation & Governance

- Threat Modeling And Tool Abuse
- Permissions, Data Access And Human Approval
- Execution Logging, Audits And Incident Review
- Agent Testing, Evaluation And Reliability
- Cost, Latency And Operational Safety
- Governance And Enterprise Assurance

11 AI Agent Deployment & Infrastructure

- Agent Backend And API Deployment
- Container Packaging And Release Verification
- Queues, Background Workers, And Resource Controls
- Service Scaling And Cloud Deployment
- Observability, Monitoring, And Incident Response
- Integrated Deployment And Capstone Operations

12 Advanced Multi-Agent Enterprise Architecture

- Enterprise Orchestration And Department Design
- Shared Knowledge Governance And Interfaces
- Cross-Business Coordination And Event Workflows
- Enterprise Integration And Access Controls
- Human Oversight And Operational Performance
- Implementation Planning And Operational Handover
- Enterprise Multi-Agent Capstone Planning

02 Projects & assignments

Hands-on work for your portfolio

P1 AI Career Counsellor: Build an agent that uses learner information and a curated knowledge base to provide gro

P2 Recruitment Intelligence Engine: Develop a workflow to assist with role matching and candidate information rev

P3 Enterprise RAG Assistant: Create a retrieval-augmented assistant for organizational documents and assess the q

P4 Multi-Agent Business Automation: Design a coordinated agent workflow that handles a defined business process u

P5 Cloud Deployment and Monitoring: Deploy a selected agent or RAG project and implement basic logging, performan

03 Tools & software you will master

4 industry tools

Python



TensorFlow



AWS



Docker

04 AI Integration

How AI is used inside the work of this course

AI SUBJECT

AI Fundamentals & Prompt Engineering

- **AI Basics and Everyday Uses**
- **Generative AI: How It Works**
- **Prompt Engineering Foundations**
- **AI for Study and Workplace Tasks**
- **Fact-Checking and Reliable Research**
- **Privacy, Safety and Responsible Use**
- **Integrated Practice and Review**

AI SUBJECT

AI for Programming & Web Development

- **AI Pair Programming Setup: VS Code and GitHub Copilot**
  GitHub Copilot in VS Code: Sign in, use inline suggestions and Chat, then try agent mode o
- **AI-Assisted Front-End Development**
  GitHub Copilot in VS Code: Use inline suggestions and Chat while building and refining a r
- **Python Coding and AI Agents in the Editor and Terminal**
  Claude Code in Terminal and project files: Install or access it using the current official
- **GitHub Team Workflow and AI Code Review**
  GitHub Copilot code review in GitHub pull requests: Request a review on a practice pull re
- **Calling AI APIs from Your Own App**
  OpenAI API in A local app or server-side project: Create an API key with available account
- **AI-Assisted Testing, Debugging and Documentation**
  GitHub Copilot Chat in VS Code: Use project context to suggest tests or explain a failure,
- **AI-Assisted Deployment and Final Project**
  GitHub Copilot in VS Code: Ask for help preparing or explaining deployment files, then rev

AI TOOLS YOU WILL USE

CH

ChatGPT

Google Gemini

GitHub Copilot

VS Code

GitHub

Claude

MC

Microsoft Copilot

Perplexity

NotebookLM

CAREER OPPORTUNITIES

Where this course can take you

Agentic AI Engineer
Fresher salary: ₹3.0-4.5 LPA*

AI Solutions Architect
Fresher salary: ₹4.0-6.0 LPA*

Multi-Agent Systems Developer
Fresher salary: ₹3.5-5.0 LPA*

Generative AI Engineer
Fresher salary: ₹3.5-5.5 LPA*

AI Automation Specialist
Fresher salary: ₹3.0-4.2 LPA*

Freelancing & own business

- Develop AI chatbots for businesses
- Create automation solutions
- Offer AI consulting services
- Build custom AI applications

Industries that hire

- Tech Companies
- E-commerce
- Finance
- Healthcare
- Consulting Firms

Grow further

- Advanced AI Applications Course
- Data Science and Analytics
- Cloud Computing Specialization

Certification

Receive an ISDM NxT certificate upon successful completion, showcasing your expertise in AI.

Practical AI-integrated project | Final online test | Verifiable certificate

JOB SUPPORT

How we help you get a job

1 Personalized resume building

2 Mock interview sessions

3 Access to job offers

4 Guidance for job applications

* Typical fresher salary ranges in India; the actual salary depends on the employer, the city and your skills.

WHY START NOW

Your future is built by the skills you learn today.

Companies hire people who can do the work. People who use AI well at work are in demand - this course teaches you the job skills and the AI tools together. Every month you practise adds a project to your portfolio - the best time to start is now.

18+	600+	2,708+	390+
Years of training experience	Centres across India	Job offers to our students	Hiring companies

UNIQUE FEATURES AT ISDM NxT

- ✓ Free pre-counselling to choose the right course
- ✓ Study material, attendance, assignments, exams and results online from day one
- ✓ 24x7 AI trainer (ChatNxT) for your doubts
- ✓ Experienced, rated trainers and daily class feedback
- ✓ Practical lab sessions and live projects
- ✓ Monthly online mentorship sessions
- ✓ Resume, mock interviews and job offers in your student dashboard
- ✓ Freelancing and start-up guidance

● LIVE PLACEMENT DATA

Latest job offers to ISDM NxT students

Updated 20 Nov 2026



Gaurav M.
India
Java Software Development Engineer
Health Catalyst



Geeta K.
New Delhi
tellecaller for digital marketing
balajimarketingexperts



Anand S.
Muvattupuzha
Hiring Junior Account Executive J...
CorpZop



Adarsh S.
Ghugus
TGT Computer Science
Adani Foundation



Priyanka Y.
Mumbai
Data Entry Operator (Full-time) -...
CorpZop



Rajan S.
Ahilyanagar
Computer Trainer
Enlearning skill development Ltd

Job offers shared with our students through the ISDM NxT job network. See all at isdmnext.in/latest-placement

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CLAIM NOW

TAKE THE FIRST STEP

Book your FREE counselling session today

Meet our counsellor, see the lab, get your doubts answered and know the current fees and offers for your centre.

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Try it FREE →
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01
Counselling
Free guidance to pick the right course

02
Training
Practical classes, labs and projects

03
Mentoring
Experts, AI trainer and feedback

04
Placement support
Resume, interviews and job offers

What you get with this course

- Comprehensive study material
- Practical lab sessions
- Live project experience
- 24x7 AI trainer support
- AI career counselling
- Interview preparation assistance

ISDM NxT Head Office: 309, Saffron Plaza, Airport Road, Vadodara, Gujarat, 390022 · +916263625594 · inquiry@gmail.com

Fees depend on the centre and current offers - ask your counsellor. Course content may be updated to stay current with industry needs. · isdmnext.in