

Building Agentic AI Systems

Agents for Every Ambition

About NIIT

NIIT is a renowned global training and education company with a rich history spanning several decades. Established in 1981, NIIT is a prominent player in the field of IT and business education, offering a wide array of programs and courses designed to empower learners with the knowledge and skills needed to excel in the ever-evolving world of technology.

With a commitment to providing high-quality training and a global presence that extends across 10 countries, NIIT has become synonymous with innovation, excellence, and the development of future-ready professionals in the information technology and related sectors.

PRESENCE ACROSS
10
COUNTRIES

40+
YEARS OF
TRANSFORMING LIVES



The NIIT Advantage



97%*
of Eligible
Learners Placed



Faculty
Feedback Rating
4.6/5



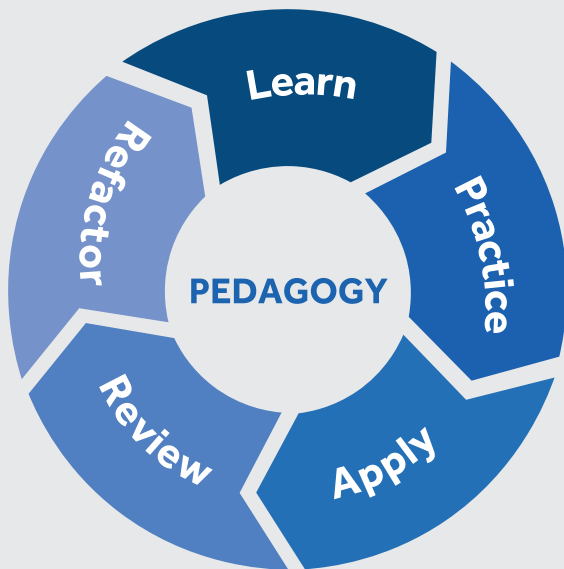
40 MN+
Alumni
Network

800+ HIRING PARTNERS



... and many more!

Our Learning **Methodology**



Embark on a transformative journey guided by our unique pedagogy, curated to maximize your learning efficiency and retention. This iterative process ensures continuous improvement and mastery, empowering you to confidently tackle real-world challenges. Immerse yourself in hands-on experiences, mentorship, and role-specific competencies, shaping you into a confident and adaptable professional poised for success.

01 Outcome Driven

Program builds role-specific competencies and instills self-confidence.

02 Practitioner Designed

Accelerate skill acquisition and gain experience.

03 Job-readiness

Multi-staged approach that gradually prepares learners to get "Job-ready".

04 Hands-on

Over 60% of program time invested in coding and hands-on activities.

05 Progressive Learning

Step-by-step learning, where skills are built through structured sprints of increasing complexities.

06 All-round Competency

Program equips learners with all-round skills – Technical Skills, Functional Skills, and Professional Skills.

07 Immersive Learning

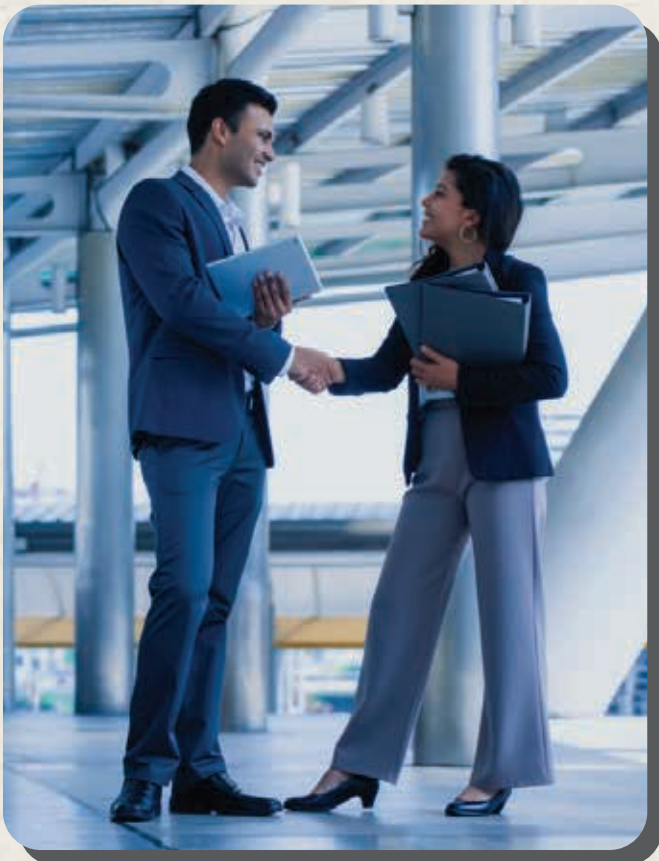
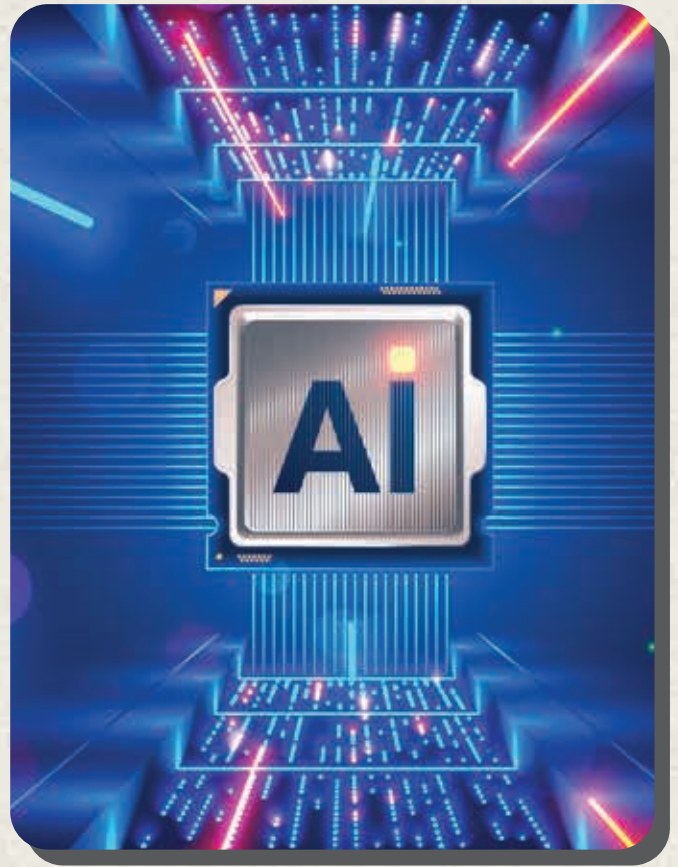
Learning that mirrors work environment with best practices. Learners solve real-world problems, get it reviewed and refactored with personal mentorship.

Building **Agentic AI** Systems Program



Accelerate your AI Journey

Already code in Java, C#, or JavaScript? We bridge you into Python and LLM APIs, then equip you to embed AI into real features. Hop on to the 300 hours structured journey from embedded AI to building AI agents.



Comprehensive. Day-one job ready

Designed from real job roles. Follow a clear path: Connect LLMs → Embed AI → Build & Test Agents → Think Agentic. Spend 60% on hands-on with 80+ assignments, 4 projects, and a capstone.



Master 25+ industry relevant frameworks

Widely adopted frameworks and LLM APIs that reflect current developer practices. Hands-on exposure to LangChain, LlamaIndex, LangGraph, CrewAI, Langfuse, Guardrails AI, Langflow, Azure AI Foundry, Azure AI Search, and many more.



5 Real Projects. Real Results.

Graduate with an impressive portfolio by taking Incremental steps to build something impressive. Including conversational chatbots, RAG app, and a multi-agent workflow.

Program Curriculum

Python for Reliable AI-Embedded Applications

Practical skills to build reliable Python applications:

- Writing clean code, handling errors, creating tested REST APIs
- Calling LLMs safely, and optimizing data exchange
- Using GenAI to accelerate documentation and testing

Build and Deploy Intelligent Conversational Agents

Hands-on experience building secure, conversational agents:

- Building agents with LLM fundamentals, no-code chatbots, LangChain, prompt engineering, and structured outputs
- Enhancing agent capabilities using tools, memory, and multi-step LCEL workflows
- Designing UI, security, and observability with Streamlit/React frontends, Auth0 authentication, and Langfuse-based agent monitoring

Build RAG Based Systems

Skills to build end-to-end RAG systems:

- Ingesting and embedding data, running hybrid search with grounded answers
- Securing access with PII safeguards
- Integrate External Systems with MCP
- Connecting real tools with memory and handoff

Build Autonomous Multi-Agent Systems

Build multi-agent systems using LangGraph and CrewAI:

- Designing agent workflows with state management, routing, checkpointing, and parallel execution
- Implementing agent reasoning using ReAct, planning, reflection, and tool usage
- Scaling systems through multi-agent orchestration, caching strategies, and intelligent routing

Capstone: Engineer an Agentic AI System (SLO-Bound)

Gain hands-on skills to design reliable multi-agent systems:

- Defining goals and designing agent teams
- Building and testing agentic workflows, securing data, and meeting SLOs
- Using GenAI to enhance quality and performance

What **You'll Gain**

- ✓ Use Python to write clean, modular code, build APIs, and integrate external services.
- ✓ Develop conversational AI agents that interact with users through web applications.
- ✓ Build Retrieval-Augmented Generation (RAG) systems to query and ground answers in enterprise data.
- ✓ Design and orchestrate multi-agent systems that plan, act, and collaborate to complete tasks.
- ✓ Build a portfolio of Agentic AI projects such as a compliance agent, job placement assistant, event planner, financial analyst, and autonomous software development team.

Program **Details**

Program Duration	: 25 Weeks* (3 Sprints per Week)
Program Pre-requisites	: <ul style="list-style-type: none">• Have experience working with modern programming language stacks (Python/Java/JavaScript/C#).• Working knowledge of Full Stack Web Application development.• Working knowledge of GenAI concepts, prompting techniques, and terminologies.• Should have used at least one GenAI tool (e.g., ChatGPT, Claude, Gemini).
Fee	: <ul style="list-style-type: none">• Program fees ₹1,50,000 + 18% GST• Booking fees ₹1,500 + 18% GST
Mode of Learning	: Live Mentor-led Online Classes. Medium of Instruction will be English

25+ Tools & Frameworks

 LangChain

 LlamaIndex

 LangGraph

 crewAI

 Langfuse

 Guardrails AI

 Langflow


Azure AI Foundry


PostgreSQL

pgvector

 Pydantic


python™

 FastAPI

 TypeScript

 Ollama

 React

 OpenTelemetry


pytest

 Gemini

LLaMA
by  Meta

 A2A
protoc

 Model Context Protocol

 Microsoft
Azure

 OpenAI

... and many more!

AGENTIC
AI

Capstone Projects Use Cases

01

Multi-Agent System for Code Review & Optimization

Crew of agents to automate checks for code quality and performance, providing targeted improvements and feedback loops.

02

Multi-Agent Software Customer Support with Human in the Loop

Hierarchical workflow of agents with Support Specialist and Support QA roles to troubleshoot and handle customer FAQs from existing documentation delegating unresolved queries to humans.

03

Agentic AI Candidate Assessment System

Specialized agents play roles (hiring manager, subject matter expert, behavioural analyst) to collaboratively conduct structured, comprehensive candidate assessments.



Additional Use Cases To Choose From:

01

Agent Swarm for Prospective Customer & Competitor Analysis

Collaborative agents specializing in customer research, existing competitors and industry trends to generate consolidated intelligence.

02

Agent Collaboration System for Investment Recommendations

Hierarchy of agents that collaborate to perform market data analysis, develop investment strategies, perform investment execution planning, and risk analysis to produce investment recommendations.

03

Agentic System for Sales Enablement

System of agents that tracks and evaluates incoming leads based on behavioral data, CRM records, and external intelligence. They assign scores to each lead, propose tailored outreach methods, and update scores in real-time.



Awards & Achievements



Best Tech Skilling EdTech Company

by Times Business
Awards in 2022



Trusted Brand in Education

by Prime Insights in
2023



Gold Winner – Learning Excellence

by Global Learning
Awards



DATAQUEST 40+
years
Impacting Indian ICT Industry Since 1982



Disclaimer:

Program features are subject to change. For latest information refer to our website: www.niit.com
Refer to terms and conditions for more details.

*T&C apply. Numbers mentioned are averages since inception. Past records are no guarantee of future prospects.

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