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## **About Next IT Career**

Next IT Career Best Software Coaching Center in
Hyderabad Corporate training is a function of human
resource management that aims to provide the
organization's employees with the knowledge and skills
required to be successful. In turn, the growth of employees
also contributes to the success of the business.
In recent years, Its also seen as a long-term strategic
assignment rather than a cost center for the organization.
The majority of companies have embraced 'continual
learning' in it to promote employee growth both
professionally and personally and acquire a highly skilled
workforce as a result.



**Corporate Training** 



**Classroom Training** 



**Online Training** 



# Why Choose Us?



**Mock Interviews** 



Training by Certified Instructors



**Weekly Assignments** 



Interview cracking tips



**Project Training** 



**Resume Preparation** 



## **Course Syllabus**

#### **Python Foundations for AI**

· Python Essentials for AI Development

#### **Machine Learning Fundamentals for NLP**

- · Structured Roadmap to Master NLP
- · Real-World Applications of NLP
- Tokenization Concepts & Implementation
- · Practical Tokenization Labs
- Text Preprocessing Techniques: Stemming with NLTK
- · Lemmatization Strategies
- · Stopword Filtering in NLP
- POS Tagging Using NLTK
- Named Entity Recognition (NER)
- · Encoding Techniques: One-Hot Encoding
- · Bag-of-Words (BoW) Model Concepts & Practice
- Understanding N-Grams in NLP
- · TF-IDF: Intuition & Use Cases
- · Introduction to Word Embeddings
- Word2Vec: Theory & Applications
- Hands-on Projects

#### **Deep Learning Techniques for NLP**

- · Fundamentals of Deep Learning for NLP
- Recurrent Neural Networks (RNN) In-Depth Understanding
- · Building Complete Projects with Simple RNNs
- · Advanced RNN Architectures: LSTM and GRU
- · Bidirectional RNN Internal Mechanics
- · Encoder-Decoder Architectures Explained
- · Sequence-to-Sequence Learning in NLP
- · Attention Mechanism Theory & Code
- · Introduction to Transformer Architectures



#### **Generative AI and Large Language Models (LLMs)**

- · Foundations of Generative AI and LLM Ecosystem
- · Getting Started with LangChain Framework
- · LangChain & OpenAl Integration Overview
- · Core Modules and Components in LangChain
- Using OpenAI & Ollama with LangChain
- LCEL (LangChain Expression Language) for LLM App Development
- · Building Context-Aware Chatbots with LangChain
- Chatbots with Conversational Memory and Q&A Capability
- · End-to-End Generative AI Chatbot Projects
- RAG-Based Document Q&A using GROQ API and LLaMA3
- · Conversational Q&A on PDFs with Chat History
- · Intelligent Search Engines with LangChain Tools & Agents
- Hands-on Projects

#### **Advanced Integrations and Deployment**

- LangChain + HuggingFace Integration
- PDF Query Systems with AstraDB and LangChain
- · CodeLlama for Multilingual Code Generation Assistants
- Deployment Strategies: Streamlit & HuggingFace Spaces
- · Implementing Gen AI Apps on AWS
- Real World Use Cases with crewAl Multi-Agent Architecture
- · Hybrid Search RAG with Vector Databases + LangChain
- Introduction to Graph Databases and Cypher Query Language
- GraphDB Integration for LLM Applications
- Intuition & Implementation of LLM Fine-Tuning Techniques
- · Fine-Tuning LLMs Using Lamini Platform
- Stateful & Multi-Agent Workflows using LangGraph

#### Module 2: Agentic AI & Autonomous AI Systems

#### **Foundations of Agentic Al**

- Introduction to Al Agents
- What is Agentic AI? Concepts and Scope
- · Key Differences: Al Agents vs Agentic Al



#### Lang Graph: Building Agentic Al Systems

- · Getting Started with LangGraph Framework
- Core Components and Workflow Patterns
- Debugging and Monitoring using LangSmith
- · Exploring Various Workflow Architectures
- · Human-in-the-Loop with LangGraph
- Retrieval-Augmented Generation (RAG) with LangGraph

#### **Applied Agentic AI Projects**

- End-to-End LangGraph Projects
- · Al-Powered Chatbot with Live Web Search Capabilities
- Autonomous News Summarization Agent System
- · Blog Generation Assistant using Agentic Al
- · Leveraging Model Context Protocol in Agent Workflows



## **Our Other Courses**

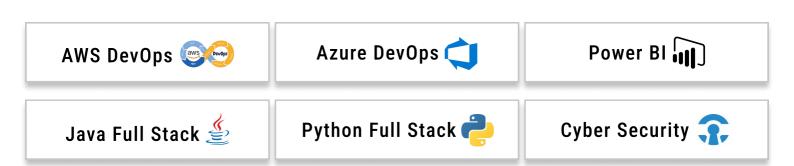
## **Trending Software Testing courses**



### **Most Trending Courses**



### **Most Demand Courses**



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## **Our Recruitment Partners**

















































































### **Our Branches**



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# **Our Infrastructure**













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