













Generative AI (Gen-AI) Master Program



Course Curriculum

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Meet The Founder

AMOL S. PANDIT



Amol S. Pandit is the founder and CEO of Omnilearn Professionals Private Limited, a global professional training and corporate learning organization focused on developing future-ready talent. He holds a master's degree in mechanical engineering from BITS Pilani and brings strong expertise in engineering, quality systems, and organizational excellence.

With a decade of experience as an engineer in the Ministry of Civil Aviation, he gained deep exposure to quality management, regulatory compliance, and operational governance. He later transitioned into professional training and consulting, specializing in Lean Six Sigma, project management, business analytics, and leadership development, delivering programs for Fortune 500 companies and leading institutions.

A certified Lean Six Sigma Master Black Belt, Agile Scrum Master, and Business Analyst Professional, Amol is also a recipient of the Indian Achievers Award for his contribution to education and skill development. Under his leadership, Omnilearn has become a trusted global learning partner across multiple high-impact domains.

ABOUT OMNILEARN

Omnilearn Professionals Private Limited is a global professional training and corporate learning organization focused on building future-ready skills for individuals and enterprises. With a presence in India, the UAE, and Canada, Omnilearn delivers industry-relevant classroom and corporate training across domains such as SQL database management, project management, data science, AI & ML, SAP, IT, cybersecurity, quality management, and leadership development. Their hands-on, outcome-driven approach combines instructor-led sessions, real-world projects, and career support, including resume building, interview preparation, and job assistance. Omnilearn's mission is to empower professionals with globally relevant skills that drive measurable business impact and long-term career growth.

ABOUT THE COURSE

GENERATIVE AI

Generative AI is one of the most transformative technologies of the decade, enabling machines to create human-like text, images, code, audio, and more. This 40-hour, hands-on program takes you from the fundamentals of large language models and transformers to building real-world GenAI applications using prompt engineering, retrieval-augmented generation (RAG), fine-tuning, and multimodal models. Through live instructor-led sessions and practical projects, you will learn to work with leading tools and APIs such as GPT, Claude, Gemini, and Hugging Face, while applying responsible-AI and security best practices. By the end, you will be equipped to design, evaluate, and deploy production-ready Generative AI solutions that drive measurable business impact.

WHY CHOOSE US?



Expert & Personalized Mentorship



Lifelong Learning Resources



Free Lab Access



End to end placement support



Globally Recognized Certification Guarantee



Complementary Resume Building from Experts



Guaranteed Internship

ABOUT PLACEMENTS

01.

We offer 100% Placement Assistance, backed by a strong network of 300+ Placement and Internship Partners to support your career growth.



02.

We have successfully placed more than 5000 candidates throughout our journey



03.

Students who complete the mandatory training program qualify for our placement assistance program



04.

Real-time training and excellence make Omnilearn the recruiters' top choice



WHY GEN-AI AT OMNILEARN?



Comprehensive training on the latest AI technologies and tools



Access to expert instructors and a supportive community of fellow learners



ISO and Global Quality Control Board Accredited Certification



100% Job Support end-to-end



LMS Subscription for Lifetime



Free Server access



Capstone Project and Internship Opportunity



Flexible learning options to fit your schedule

CERTIFICATION PROCESS

1

Counseling:

Register for the course and follow the enrollment process

2

Engage in the Learning Process:

Attend all lectures, webinars, and tutorials. Participate actively in discussions and complete all the projects assigned by the instructor

3

Course Completion Certificate:

Complete the course as per the schedule and receive the globally accredited certificate from Omnilearn.

4

Global Certification:

Get complete support with globally recognized certification and guidance to update your resume and LinkedIn profile with your new certification.



CERTIFICATE OF ACHIEVEMENT

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Full Name

Who Has Successfully Completed Our Training Program On
Course Name

CERTIFICATE NO: OMNL-XXXXXXXX

DATE OF ISSUE: XX-XX-XXXX



AUTHORIZED SIGNATORY



COURSE CONTENT

Foundations of Generative AI

- What is Generative AI vs Traditional AI
- Evolution: ML, Deep Learning & Neural Networks
- Generative Models: GANs, VAEs, Diffusion & Transformers
- Real-World Use Cases Across Industries

Large Language Models (LLMs) Explained

- Transformer Architecture & Attention
- Tokenization, Embeddings & Context Windows
- Pre-training, Fine-tuning & Alignment (RLHF)
- Popular LLMs: GPT, Claude, Gemini & Llama

Working with GenAI Tools & Platforms

- ChatGPT, Claude, Gemini & Copilot
- Hugging Face Hub & Model Cards
- OpenAI & Anthropic APIs Overview
- Choosing the Right Model for a Task

Text Generation & Natural Language Tasks

- Summarization, Translation & Classification
- Content Creation & Copywriting
- Conversational AI & Chatbots

Prompt Engineering Essentials

- Anatomy of an Effective Prompt
- Zero-shot, One-shot & Few-shot Prompting
- Chain-of-Thought & Role Prompting
- Structured Output & Format Control

Retrieval-Augmented Generation (RAG)

- Why RAG: Grounding & Reducing Hallucination
- Embeddings & Vector Databases
- Chunking & Indexing Strategies
- Building a RAG Pipeline
- Evaluating Retrieval Quality

Image & Multimodal Generation

- Diffusion Models & Image Generation
- DALL-E, Midjourney & Stable Diffusion
- Image-to-Text & Vision Models
- Audio, Video & Multimodal Models

COURSE CONTENT

Fine-Tuning & Model Customization

- When to Fine-Tune vs Prompt vs RAG
- Supervised Fine-Tuning Basics
- Parameter-Efficient Tuning (LoRA, PEFT)
- Preparing & Curating Training Data

Building Generative AI Applications

- LangChain & LlamaIndex Frameworks
- Prompt Templates & Chains
- Integrating LLMs into Apps & APIs
- Streamlit & Gradio Front-Ends

Embeddings & Semantic Search

- Understanding Vector Embeddings
- Similarity Search & Re-ranking
- Vector Stores: FAISS, Pinecone & Chroma
- Semantic Search Use Cases

COURSE CONTENT

Evaluation & Quality of GenAI

- Hallucination, Bias & Toxicity
- Evaluation Metrics & Benchmarks
- Human-in-the-Loop Evaluation
- Guardrails & Output Validation

Responsible & Ethical AI

- AI Ethics, Fairness & Transparency
- Data Privacy & IP Considerations
- Regulations: EU AI Act & Global Trends
- Safe & Trustworthy AI Practices

GenAI for Productivity & Business

- AI for Marketing, Sales & Support
- Document & Knowledge Automation
- Coding Assistants & Data Analysis
- Measuring ROI of GenAI Initiatives

COURSE CONTENT

Deployment & MLOps for GenAI

- Serving Models in Production
- API Gateways & Scaling
- Cost, Latency & Token Optimization
- Monitoring & Observability (LLMOps)

Security in Generative AI

- Prompt Injection & Jailbreaks
- Data Leakage & PII Protection
- Access Control & Rate Limiting
- Red-Teaming GenAI Systems

Advanced Prompting & Reasoning

- Self-Consistency & Tree-of-Thought
- ReAct: Reasoning + Acting
- Prompt Chaining & Decomposition
- System Prompts & Guardrail Design

Working with Open-Source Models

- Llama, Mistral & Falcon Families
- Running Models Locally (Ollama, LM Studio)
- Quantization & Hardware Considerations
- Open vs Closed Model Trade-offs

COURSE CONTENT

Generative AI Project Lifecycle

- Problem Framing & Use-Case Selection
- Data Strategy & Model Selection
- Iterative Development & Testing
- Go-Live & Continuous Improvement

Emerging Trends in GenAI

- Agentic AI & Autonomous Workflows
- The Future of Multimodal & Reasoning Models

Industry Applications & Case Studies

- Healthcare, Finance & Retail
- Education & Media
- Enterprise Knowledge Assistants

Capstone Project

- Define & Scope a GenAI Solution
- Build: Prompting + RAG + UI
- Evaluate & Optimize Performance
- Present & Deploy Your Project

OUR ACHIEVEMENTS



INDIAN ACHIEVERS AWARD



ON-SITE TRAININGS



ON-SITE TRAININGS



OUR CANDIDATES PLACED AT

5,000+ students trained at Omnilearn are now thriving in top companies across the globe. The next success story could be you.



REVIEWS ★★★★★

Click on the link and check all our candidate's feedback:

<https://theomnilearn.com/courses/ai/generative-ai#give-review>

"A very well-structured course. The progression from AI fundamentals to advanced applications felt natural and easy to follow."

Antony Richard ★★★★★ 5/5



"I joined mainly for career growth and ended up learning much more than expected. The projects and resume guidance added significant value."

Yogesh Kumar ★★★★★ 5/5



"The GenAI landscape changes rapidly, but this course focused on concepts that remain useful regardless of the platform. That made it extremely practical and future-ready."

Sowmya Garg ★★★★★ 5/5



"The course explained everything from LLMs to RAG in a very practical way. The live demonstrations and projects were the best part."

Niti Arora ★★★★★ 5/5



"The trainer connected technical concepts with real business applications, which enhanced the understanding."

Sumit Sharma ★★★★★ 5/5



CONTACT US



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