



PYTHON TRAINING

Generative Ai Python Course

Master Generative AI model development using Python. Build innovative applications and leverage cutting-edge AI techniques.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Embark on a rapid yet comprehensive journey into the fascinating world of Generative AI with our 'Generative AI Python Course'. This intermediate-level program is meticulously designed for Python developers eager to leverage cutting-edge AI models for creative and innovative applications. Over 2 intensive hours, you will dive into the core concepts of Generative AI, understand the power of large language models (LLMs) and diffusion models, and gain practical experience using Python to interact with these sophisticated systems. We will focus on prompt engineering techniques, enabling you to effectively guide AI models to produce desired outputs, from generating compelling text to creating unique images.

This course focuses on practical application, equipping you with the immediate skills to integrate Generative AI into your projects. You will learn to navigate essential Python libraries and frameworks that facilitate interaction with pre-trained generative models, making complex AI accessible. By the end of this certification, you won't just understand Generative AI; you'll be able to actively implement and experiment with it, unlocking new possibilities for automation, content creation, and problem-solving across various industries. Elevate your Python expertise and position yourself at the forefront of the AI revolution.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Foundations of Generative AI & Python Setup

- Introduction to Generative AI: Core concepts and applications
- Understanding different Generative AI types: LLMs, Diffusion Models
- Setting up your Python environment for Generative AI projects
- Overview of key Python libraries for GenAI (e.g., Hugging Face Transformers)

02 Module 2: Practical Prompt Engineering for LLMs

- Principles of effective prompt design for large language models
- Zero-shot, few-shot, and chain-of-thought prompting techniques
- Crafting nuanced prompts for text generation, summarization, and Q&A
- Iterative refinement of prompts for optimal AI model outputs

03 Module 3: Building Basic Generative AI Applications

- Interacting with pre-trained Generative AI models using Python APIs
- Implementing simple text generation and transformation tasks
- Introduction to basic image generation concepts (text-to-image)
- Ethical considerations and responsible AI development practices

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **Generative AI Prompt Engineer**

- > **Junior AI/ML Developer (focusing on GenAI applications)**
- > **Content Automation Specialist with AI tools**

FREQUENTLY ASKED QUESTIONS

Q: What are the prerequisite skills required to enroll in this intermediate Generative AI Python Course?

This course is designed for intermediate-level Python developers. You should have a solid understanding of Python fundamentals, including data structures, functions, and object-oriented programming concepts. Basic familiarity with machine learning concepts or APIs is beneficial but not strictly required, as we will focus on practical application rather than deep theoretical ML model training.

Q: How will this 2-hour course specifically enhance my ability to build Generative AI applications?

While a 2-hour course provides a focused introduction, it is strategically designed to equip you with immediate, actionable skills. You will learn to effectively prompt and interact with existing Generative AI models using Python, which is a crucial first step in building applications. You'll gain hands-on experience using key libraries, enabling you to integrate AI-powered text and image generation capabilities into your projects right away, laying a strong foundation for further specialization.

Q: Will this course cover fine-tuning Generative AI models or focus more on utilizing existing ones?

Given its intermediate level and 2-hour duration, this course primarily focuses on effectively utilizing and interacting with pre-trained Generative AI models through prompt engineering and API usage. While we won't delve into the complex process of fine-tuning models from scratch, you will gain a clear understanding of how these powerful models work and how to leverage them for various creative and practical applications.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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