

Certified Generative AI Professional (CGAIP)™



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Certified Generative AI Professional (CGAIP) - Certification Overview

The Certified Generative AI Professional (CGAIP) is an industry-focused credential designed to validate expertise in designing, implementing, and managing generative artificial intelligence solutions. This certification equips professionals with practical knowledge of large language models, prompt engineering, AI-driven content creation, and intelligent automation workflows. It emphasizes real-world applications across business, technology, and creative domains.

The CGAIP program blends foundational theory with hands-on experience, ensuring candidates understand both the technical mechanics and strategic value of generative AI systems. Participants learn how to integrate AI models into applications, optimize outputs through structured prompting, apply retrieval-augmented generation (RAG) techniques, and implement responsible AI practices including bias mitigation and governance. The certification ensures professionals can confidently deploy AI solutions that are scalable, ethical, and business-aligned.

Upon successful completion, CGAIP holders demonstrate the ability to design AI-powered solutions, enhance productivity through automation, and support innovation initiatives within their organizations. The certification validates not only technical proficiency but also the capability to translate generative AI technologies into measurable business impact, making it a valuable credential for career advancement in the rapidly evolving AI landscape.

Target Audience

- Software Developers and Application Engineers
- Data Scientists and Machine Learning Engineers
- AI/ML Students and Researchers
- Product Managers and Technology Consultants
- Digital Marketing and Content Strategy Professionals
- Business Analysts and Innovation Managers
- IT Managers and Technology Leaders
- Entrepreneurs and Startup Founders exploring AI solutions

What Modules are covered?

Module 1 - Foundations of Generative AI

- Introduction to Artificial Intelligence and Machine Learning
- Evolution of Generative AI
- Large Language Models (LLMs) fundamentals
- Text, image, audio, and multimodal generation concepts
- Real-world applications and industry use cases
- Overview of leading AI platforms and tools

Module 2 - Prompt Engineering & AI Interaction

- Principles of prompt engineering
- Zero-shot, one-shot, and few-shot prompting
- Chain-of-thought prompting
- Role-based and contextual prompting
- Prompt optimization techniques
- Evaluating and refining AI responses

Module 3 - Generative AI Development & Integration

- Working with AI APIs
- Integration of generative models into web and mobile apps
- Retrieval-Augmented Generation (RAG) concepts
- Data preparation for AI systems
- Workflow automation using AI
- Testing and debugging AI applications

Module 4 - Advanced Generative AI Techniques

- Transformer architecture overview
- Fine-tuning concepts and model customization
- Embeddings and semantic search
- Multimodal AI systems
- Performance optimization and scaling strategies
- Monitoring AI model performance

Module 5 - Responsible AI, Ethics & Governance

- AI bias and fairness
- Responsible AI principles
- Data privacy and compliance
- Intellectual property considerations
- Risk assessment in AI systems
- AI governance frameworks

Module 6 - Generative AI Strategy & Capstone Project

- AI solution design thinking
- Identifying AI opportunities in organizations
- ROI measurement and performance metrics
- Building AI-powered business solutions
- Capstone project development
- Project presentation and evaluation

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