Generative AI Professional

System and Information technology

Virtual

40 hours

EGP 35,000

Course Description:

- The generative AI Program offers an invaluable opportunity to demonstrate expertise in the cutting-edge field of generative AI.
- Artificial Intelligence has become increasingly prevalent, and this Program holds immense significance, By focusing on the practical application of generative AI, this Program equips individuals with the necessary skills to navigate the complexities of AI-driven technologies.
- GSDC's commitment to providing Program exams ensures that professionals can showcase their proficiency in generative AI, emphasizing its relevance and value in contemporary society.

Target Audience:

- Chief Technical Officers
- Chief Information Officers
- Change Practitioners and Managers
- Service Architects
- Program/ Project Head
- Web Developers
- Engineers, Scientists
- Process architects
- Business strategists and consultants
- Portfolio Strategist

Course Objectives:

- Effectively navigate complexities of AI-driven technologies.
- Create innovative solutions using generative AI.
- Exhibit practical expertise in generative AI.
- Demonstrate proficiency in AI-generated synthetic media.
- Contribute to the dynamic field of artificial intelligence.
- Validate practical application skills in Gen AI.
- Propel advancements in generative AI technology.

Course Outline:

1. **Foundations of AI and Machine Learning**
   - Overview of Traditional Artificial Intelligence Understanding AI
   - Demystifying Machine Learning
   - Deep Learning and Neural Networks
   - Generative and Discriminative Models

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2. **Introduction to Generative AI**
   - Concepts and Principles of Generative AI
   - Key Techniques
   - Applications and Use Cases

3. **Advanced Concepts and Applications of Generative AI**
   - Introduction to Large Language Models (LLMs)
   - Benefits and Evolution of LLMs
   - Tuning LLMs for Specific Tasks
   - Applications in Various Domains

4. **Generative AI Tools**
   - Overview of Generative AI Tools
   - Utilizing Generative AI Studio
   - Gen App Builder
   - Maker Suite and PaLM API

5. **Ethical and Responsible AI**
   - Ethical Considerations in Generative AI
   - Addressing Bias and Fairness
   - Ensuring Data Privacy and Security
   - Transparency and Accountability in AI Systems

6. **Generative AI in Industry**
   - Applications in Healthcare
   - Applications in Finance
   - Applications in Retail and E-commerce
   - Applications in Media and Entertainment

7. **Generative AI for Creativity and Content Generation**
   - AI in Art and Design
   - Generative AI for Music and Audio
   - AI in Writing and Content Creation
   - Case Studies of Creative AI Applications

8. **Professional Development and Career Growth**
   - Skills Required for Generative AI Professionals
   - Training and Certification Programs

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9. **Implementing Generative AI in Organizations**
   - Strategic Planning for AI Implementation
   - AI Implementation at Different Levels
   - Automating Routine Tasks with AI
   - Building an AI-Driven Culture

10. **Generative AI for Operations**
    - Generative AI for Operational Efficiency
    - AI in Human Resources
    - AI for Leadership and Strategic Planning - Generative AI for Software Development
    - AI for Marketing & Customer Experience

11. **Use Cases with Generative AI Tools & Hands-on Demos.**
    - Learn to create AI Enhanced PowerPoint Presentations, Images, Chart analysis for all business purposes- From Basics to Mastery.
    - Learn to leverage AI for automated data insights, simplifying the journey from data collection to impactful business strategies.
    - Learn to harness the power of AI for document summarization, distilling vast information into concise summaries effortlessly.
    - Learn to build AI-powered personalized recommendation systems with your data on PDF/Word documents using AI assistants.
    - Content Generation (Audio, Video, Images) with Prompt Engineering.

Prerequisites:

Basics of Machine Learning and Python is recommended