

# Certified Generative AI In Software Development

## Global Certification Program

- ✓ Globally lifetime Valid Certification
- ✓ Lifetime Valid Certification
- ✓ AI based Roleplay & Simulations
- ✓ Two Exam Attempts



# An Overview

## what you can expect from this program

Accelerate Innovation and Optimize Software Development with Gen AI

Empower your software development teams by integrating generative AI into their workflows, enhancing their capabilities, and driving innovation.

As a Strategic Gen AI Specialist in Software Development, you'll gain the expertise to develop and implement AI-driven strategies that streamline development processes, improve code quality, and foster a culture of continuous improvement. This proactive approach addresses critical industry challenges such as automating repetitive tasks, enhancing software testing, accelerating product development cycles, and optimizing resource allocation.

This comprehensive online certification provides a step-by-step guide to integrating generative AI into your software development practices, ensuring a future-ready workforce equipped with cutting-edge skills.

All resources within this certification, including materials and tools, are provided as value-added (complimentary) components.

	<b>Type</b>	Online self-paced learning, Mocks
	<b>Language</b>	English (including subtitles)
	<b>Access</b>	12 months
	<b>AI based Role play</b>	Prepare yourself for career with AI based roleplay
	Digital certificate upon completion ( 2 Attempts)	
	Card Payment, Bank Transfer	
	Reading materials & Reference Templates	
	100% day money back guarantee	

# GSDC Introduction

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Welcome to the Global Skill Development Council (GSDC)!

As an independent, vendor-agnostic certification organization, we empower professionals worldwide.

Leading MNC organizations and global universities recognize our certifications. With a diverse portfolio of over 100+ programs, including L&D, HR, SRE, DevOps, Agile, Six Sigma, and Cyber Security, we've certified over 50,000 professionals.

Partnered with 50+ global training organizations, GSDC is your gateway to unlocking endless opportunities.

**Join us today and let your skills soar to new heights!**



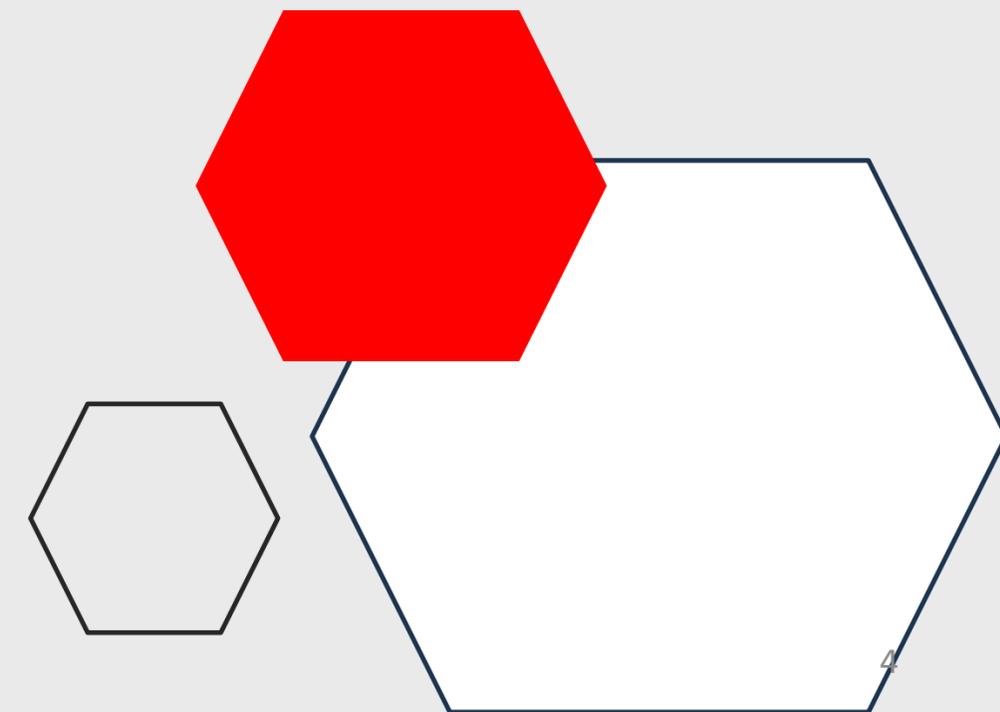
# Introduction

## Generative AI for Software Development

GSDC's Generative AI IN Software Development certification designed for professionals who want to pursue their careers in Machine Learning and Artificial Intelligence. Through certification, they will have a great platform to enhance their skills and capabilities of core components of Generative AI.

Through this certification, Professionals will get to know about core topics such as code generation, natural language interfaces, bug identification and AI ethics specific to software development contexts.

Professionals who earn this certification demonstrate their ability to leverage generative AI tools for code automation, documentation enhancement, and software optimization.



# Learning Objective

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- ✓ The certification helps professionals with AI skills for code automation.
- ✓ It enables professionals to use generative AI in Natural Language Interfaces and Documentation.
- ✓ This certification improves the understanding of ethical considerations in Generative AI for Software Development.
- ✓ It supports professionals to boost their software development efficiency and quality with the help of Generative AI techniques.
- ✓ It fosters innovation in software development with the help of integration of Generative AI..
- ✓ It validates expertise in harnessing generative AI for software development processes.
- ✓ It offers hands-on experience in using Generative AI models for code generation and augmentation

## OBJECTIVES OF GENERATIVE AI SOFTWARE DEVELOPMENT CERTIFICATE

## 1. Introduction to Generative AI:

- Exploring the Fundamentals of Generative AI
- Significance in Software Development
- A Historical Perspective
- Key Terminology and Concepts

## 2. Probability and Information Theory:

- Delving into Probability Distributions
- Grasping the Essentials of Information Theory
- Understanding Kullback-Leibler Divergence

## 3. Generative Models:

- Unpacking Generative Model Basics
- Navigating the World of Autoencoders
- Diving into Variational Autoencoders (VAEs)
- Exploring Generative Adversarial Networks (GANs)

## 4. Deep Learning Essentials:

- Leveraging generative AI for fraud detection and prevention
- The Role of Activation Functions
- Differentiating Loss Functions
- Strategies for Regularization

## 5. Training Generative Models:

- The Art of Data Preprocessing
- Designing an Effective Training Loop
- Specialized Loss Functions for Generative Models
- Evaluating the Performance of Generative Models

## 6. Variational Autoencoders (VAEs):

- Unveiling VAE Architecture
- Grasping the Variational Inference Framework
- Hands-On VAE Implementation
- Realizing VAE Applications in Software Development

## 7. Generative Adversarial Networks (GANs):

- Exploring the Inner Workings of GAN Architecture
- Mastering the Training Process for GANs
- Harnessing the Power of Conditional GANs
- Utilizing GANs for Software Development Applications

## 8. Sequence Generation Models:

- Introducing Sequence Models
- Navigating Recurrent Neural Networks (RNNs)
- Unlocking Long Short-Term Memory (LSTM) Networks
- Examining Gated Recurrent Units (GRUs)

## 9. Transformer Models:

- Deep Dive into the Transformer Architecture
- Embracing the Attention Mechanism
- Unleashing BERT and Its Variants
- Applying Transformers in Software Development Scenarios

## 10. Ethical Considerations:

- Addressing Bias and Fairness in Generative AI
- Tackling Privacy Concerns
- Frameworks for Ethical AI
- Guidelines for Ethical AI Development

# Unleash Unlimited Potential

All GSDC certifications come with a lifetime membership, offering you a world of benefits to fuel your professional growth.



## Expert Created Learning Material

Learn from knowledge shared by Top Industry Experts with 15+ yrs of experience.



## Downloadable Resources

Get access to templates and reference documents which will help you to do your day to day tasks easier.



## Access to Global Conferences

Be a part of GSDC thriving learning community around the world, sharing knowledge from across the world.



## Certificate Upgrades

Get complimentary certificate upgrades to keep up with the latest updates in processes and frameworks.



## Speaker invites @ GSDC Webinar Series

Share your knowledge with world at GSDC global webinar series, share your expertise and learn from others.



## Newsletters, blogs with industry insights

Get newsletters, announcements and articles curated by experts direct to your inbox.

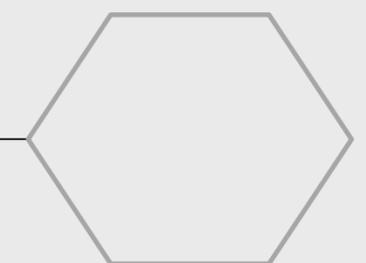


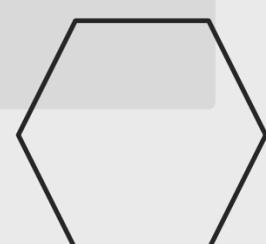
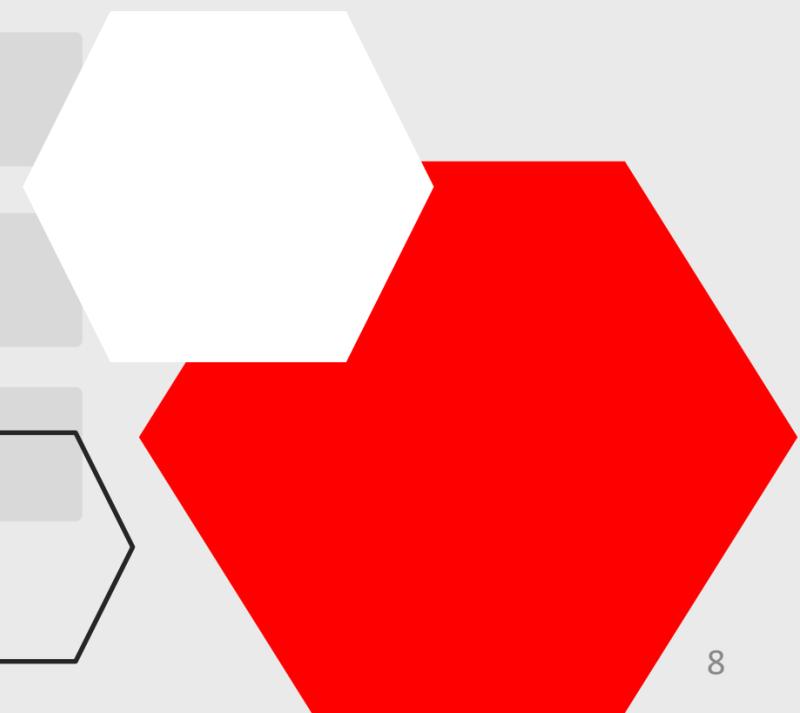
## AI Based Role Play

Learn to implement applicability of knowledge with real life simulation based games.

# What You Get In this Certification Program?

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- Engaging digital learning videos
  - Exclusive access to Global thought leader sessions & case studies
  - Downloadable and implementable resources to support practical application
  - Two mock exams with unlimited attempts for comprehensive preparation
  - Certification exam voucher with 1-year validity
  - Two attempts for certification exam
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# What our Candidates Saying?

We greatly appreciate the feedback from our program participants on Trustpilot. With an impressive average rating of 4.7 out of 5, their reviews highlight the positive experiences and value they have gained from our program.



**Global Skill Development Council - GSDC**  
 Reviews 178 • Excellent  
 4.7  
 VERIFIED COMPANY



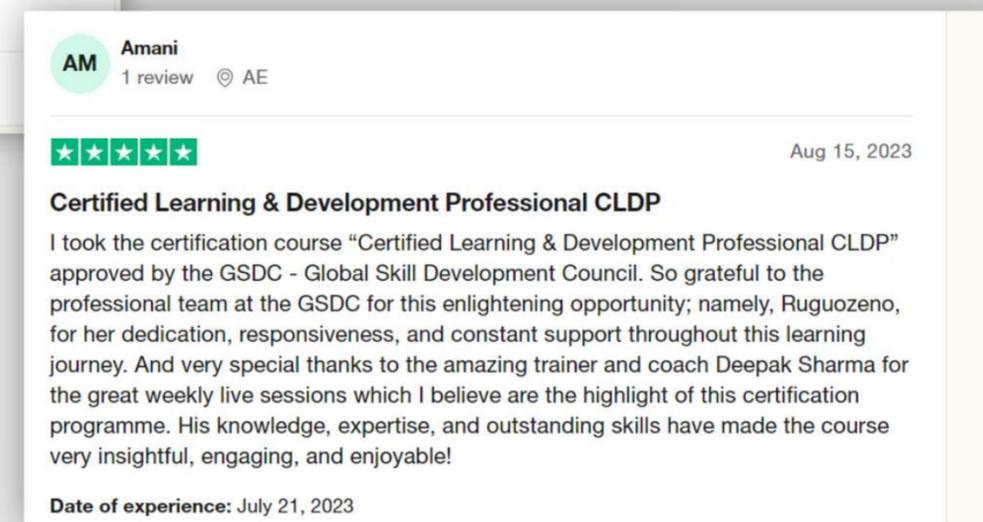
**chandrakaran j**  
 2 reviews • IN  
 Jul 18, 2023  
 5 stars  
**I had a experience with GSDC with their...**  
 I had a experience with GSDC with their SRE course and it was very good. The speakers were very knowledgable and kept it very interactive . Thanks the GSDC team for this !  
 Date of experience: April 13, 2023



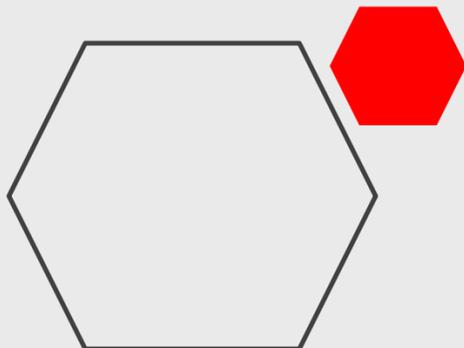
**Tosin Olaniyi**  
 1 review • NG  
 Jul 11, 2023  
 5 stars  
**The learning portal was so seamless**  
 The learning portal was so seamless, and user friendly, The course are so detailed, easy to understand, great lecturers. Safe to say the best learning platform I've used so far. I would recommend learning from GSDC to anyone. You sure will get a value for your money.  
 Date of experience: July 08, 2023



**Majid**  
 1 review • IN  
 Sep 25, 2023  
 5 stars  
**GSDC has been doing a great job in making learners gain knowledge!**  
 GSDC has been doing a great job in making the learners find right opportunities to gain knowledge for business! These two days were filled with knowledge and insights!  
 Date of experience: September 25, 2023



**Amani**  
 1 review • AE  
 Aug 15, 2023  
 5 stars  
**Certified Learning & Development Professional CLDP**  
 I took the certification course "Certified Learning & Development Professional CLDP" approved by the GSDC - Global Skill Development Council. So grateful to the professional team at the GSDC for this enlightening opportunity; namely, Ruguozeno, for her dedication, responsiveness, and constant support throughout this learning journey. And very special thanks to the amazing trainer and coach Deepak Sharma for the great weekly live sessions which I believe are the highlight of this certification programme. His knowledge, expertise, and outstanding skills have made the course very insightful, engaging, and enjoyable!  
 Date of experience: July 21, 2023



# Make Your Own Gen AI Certification Bundle

Enrich your Gen AI skills and advance your career with our exclusive bundle.  
Get certified in the following:

- Generative AI in Software Development
- Generative AI in Cybersecurity
- Generative AI in Risk & Compliance
- Generative AI in Project Management
- Generative AI in Product Management
- Certified Prompt Engineer

Expand your expertise, design impactful learning experiences, and master Gen AI skills.

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~~\$1200~~

**\$ 600**

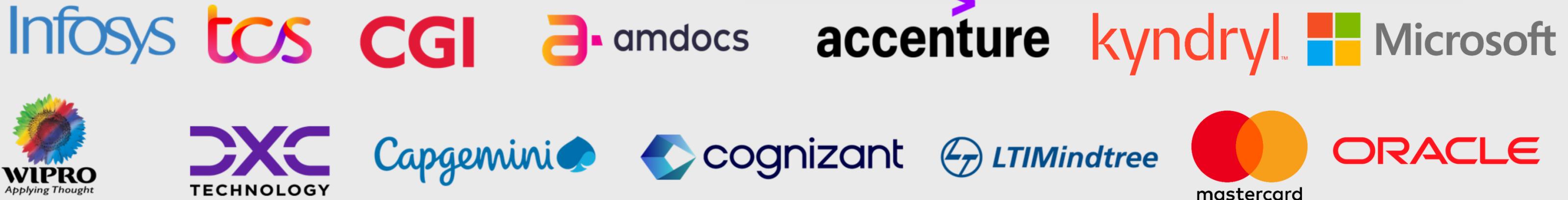
**Claim Your Bundle Here !!!**

# Certified Generative AI in Software Development

## About Exam:

- There will be a Multiple Choice Questions exam of 40 marks.
- You need to acquire 26+ marks to clear the exam.
- If you fail, you can retake the exam after one day.
- In case the participant does not score passing percentage then they will be granted a 2nd attempt at no additional cost. Re-examination can be taken up to 30 days from the date of the 1st exam attempt.

## Our Alumni Work at



Sample Certificate

*Unlock Workforce Potential Through Skill Validation!*

Enroll now with the code **UPSKILL10** To avail 10% discount.

**Register Now**

## **100% Money Back Guarantee!**

At GSDC, quality is our top priority. Our certification programs are designed to foster professional growth and ensure learning satisfaction. If you do not pass the certification exam after two attempts, we offer a 100% money-back guarantee.

- No Questions Asked\*
- 100% Amount Refund\*
- No Processing Fees\*





# Thank You

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