

# Certified MLOps Professional

## 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

In a world where data drives decisions and innovation fuels growth, machine learning has become a cornerstone of technological advancement. The GSDC Certified Machine Learning Professional (CMLP) is a globally recognized certification exam designed to validate your expertise in building and deploying intelligent systems across diverse industries. This certification equips professionals with the ability to analyze complex datasets, develop predictive models, and generate actionable insights—all without relying on classroom training.

Whether you're a data analyst, software engineer, or aspiring ML specialist, this machine learning certification signals your readiness to tackle real-world challenges using advanced ML techniques. By earning the CMLP, you not only gain credibility as a skilled practitioner but also position yourself for high-impact roles in a data-driven job market. Demonstrate your practical knowledge, showcase your ability to deliver results, and stand out in the evolving landscape of AI and machine learning.

	<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% 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 150+ programs, including L&D, HR, SRE, DevOps, Agile, Six Sigma, and Cyber Security, we've certified over 250,000 professionals.

Partnered with 100+ global training organizations, GSDC is your gateway to unlocking endless opportunities.

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



# Introduction

## Certified MLOps Professional



The GSDC Certified MLOps Professional (CMLOP) is a globally recognized MLOps certification designed for professionals looking to validate their skills in managing and automating machine learning workflows. Where deploying and maintaining ML models efficiently is critical, earning an ML Ops certification proves your ability to bridge the gap between data science and operations. This MLOps certificate is ideal for data engineers, ML engineers, and DevOps professionals who want to stand out in a competitive job market.

The certification focuses on real-world relevance, helping you demonstrate expertise in key MLOps tools and practices. While GSDC does not provide training, you'll receive access to ready-to-implement hands-on resources, templates, and supporting materials that can accelerate your learning. Whether you're aiming for better career opportunities or want to future-proof your skills, this MLOps certification equips you with a recognized edge. If you're already exploring ML Ops certification options or researching MLOps certifications, this one delivers practical value and global recognition.

# Learning Objective

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- Implement ready-to-use MLOps frameworks and templates
- Understand core principles of MLOps practices
- Learn ML lifecycle management and automation
- Apply CI/CD techniques to ML pipelines
- Align ML workflows with business goals
- Use templates crafted by industry experts
- Learn from practical MLOps use case studies
- Improve collaboration between ML and DevOps teams
- Identify bottlenecks in model deployment pipelines
- Ensure scalable and reproducible ML model delivery

## OBJECTIVES OF MLOPS PROFESSIONAL

# Curriculum

## Module 1: MLOps Fundamentals

- Understand the MLOps lifecycle and key principles.
- Compare MLOps with traditional DevOps workflows.
- Learn goals of production ML systems.
- Introduction to tools like MLflow, Docker, and GitHub Actions.

## Module 2: Experiment Tracking

- Explore techniques for tracking ML experiments.
- Learn the role of reproducibility in model development.
- Use MLflow to manage and compare runs.
- Integrate experiment tracking into CI/CD workflows.

## Module 3: Model Registry

- Understand model versioning and model lifecycle stages.
- Learn how to manage metadata and lineage.
- Use MLflow Model Registry to organize models.
- Handle staging, production, and archival transitions.

## Module 4: Containerization

- Grasp the fundamentals of Docker for ML workloads.
- Learn how to design efficient container images.
- Package ML models and inference services.
- Build and test reproducible containers.

## Module 5: Container Automation

- Automate container orchestration with Docker Compose.
- Manage container lifecycles in ML pipelines.
- Version and track container-based deployments.
- Understand Compose file structures and services linking.

## Module 6: CI/CD Workflows

- Design CI/CD pipelines for ML projects.
- Automate testing, training, and deployment.
- Use GitHub Actions to implement CI/CD.
- Manage environment and dependency workflows.

## Module 7: TFX Pipelines

- Understand the components of TensorFlow Extended (TFX).
- Build scalable ML pipelines for production use.
- Integrate data validation and model evaluation.
- Use TFX for structured pipeline creation.

## Module 8: TFX Integration

- Connect TFX with tools like MLflow.
- Enhance traceability and observability in pipelines.
- Register models from TFX in a centralized registry.
- Maintain end-to-end metadata for pipeline stages.

## Module 9: Model Serving

- Learn different serving paradigms (REST, gRPC).
- Use FastAPI and TorchServe for deployment.
- Understand scaling and inference performance.
- Implement secure and responsive APIs.

## Module 10: Monitoring Basics

- Monitor key ML metrics: latency, drift, accuracy.
- Use Prometheus and Grafana for live dashboards.
- Detect anomalies in model behavior.
- Set up alerting and feedback loops.

## Module 11: Kubernetes Deployment

- Learn core Kubernetes concepts (Pods, Services, Ingress).
- Deploy containerized ML models on Kubernetes.
- Scale services dynamically using K8s features.
- Use Helm or Kustomize for deployment management.

## Module 12: LLMops Foundations

- Explore the lifecycle of LLM-based applications.
- Compare traditional MLOps with LLMops workflows.
- Learn foundational tooling for LLMops.
- Set up basic LLM environments using LangChain and Hugging Face.

## Module 13: Prompt Engineering

- Understand prompt types (zero-shot, few-shot).
- Tune prompts for performance and consistency.
- Use prompt chaining and templating strategies.
- Evaluate and debug LLM outputs.

**Module 14: RAG Pipeline Basics**

- Learn Retrieval-Augmented Generation concepts.
- Use vector databases like FAISS for document retrieval.
- Build basic RAG pipelines with LangChain.
- Manage sources and indexing strategies.

**Module 15: RAG Pipeline Expansion**

- Improve RAG systems with chunking and embeddings.
- Apply advanced filtering and ranking.
- Integrate external tools and data flows.
- Refine document ingestion and pipeline stages.

**Module 16: RAG Pipeline Deployment**

- Prepare RAG systems for scalable deployment.
- Use containerization and orchestration tools.
- Optimize retrieval and generation latency.
- Monitor serving infrastructure for reliability.

**Module 17: LLM Deployment**

- Evaluate trade-offs of open-source vs API LLMs.
- Optimize costs, latency, and throughput.
- Deploy models using vLLM, TGI, or API endpoints.
- Secure and manage access to LLM endpoints.

**Module 18: AgentOps Basics**

- Understand LLM-powered agents and their architecture.
- Learn about agent memory and planning.
- Use LangChain to implement basic agents.
- Integrate tools and data sources with agents.

**Module 19: AgentOps Advanced**

- Build multi-agent systems with communication protocols.
- Use LangGraph to design workflows and decision trees.
- Coordinate complex agent interactions.
- Debug and evaluate agent outcomes.

**Module 20: AgentOps + MCP**

- Implement AgentOps using MCP (Multi-agent Communication Protocol).
- Manage agent context and role definition.
- Use Streamlit to build interactive agent UIs.
- Orchestrate agents in production-grade workflows.

# 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.



## Access to Global Conferences

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



## Speaker invites @ GSDC Webinar Series

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



## Downloadable Resources

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



## Certificate Upgrades

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



## 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?

- 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

# 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  
 ★★★★★  
**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 knowledgeable and kept it very interactive. Thanks the GSDC team for this!  
 Date of experience: April 13, 2023



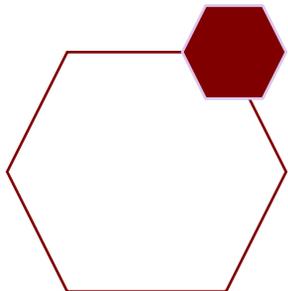
**Tosin Olaniji**  
 1 review • NG  
 Jul 11, 2023  
 ★★★★★  
**The learning portal was so seamless**  
 The learning portal was so seamless, and user friendly. The course are so detailed, easy to understand, great lecturers. Safe to say the best learning platform I've used so far. I would recommend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



**Amani**  
 1 review • AE  
 Aug 15, 2023  
 ★★★★★  
**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, Ruguzeno, 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



**Majid**  
 1 review • IN  
 Sep 25, 2023  
 ★★★★★  
**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



## Expert-Led Generative AI: Learn, Connect, Grow



### **Interactive Learning Experience:**

Ask questions, discuss case studies, and receive implementation guidelines directly from expert, enhancing your understanding of complex AI topics

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### **Lifelong Learning Journey:**

Enjoy lifetime access to these sessions, ensuring you stay updated with the latest trends and continuously grow your AI expertise

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### **Career-Boosting Network:**

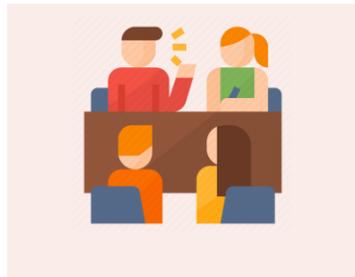
Connect with fellow professionals in the field, creating valuable relationships that can propel your career in the world of Generative AI

## AI-Based Interview Practice Platform



- Engage With Real Time AI Interview Questions.
- Practice Questions Tailored with Your Expertise.
- Validate your Knowledge of subject Matter.

## Capstone Project



- Apply Your Skills in Real World Scenario.
- Learn Methodologies Aligned to Your Expertise.
- Validate Skills and Knowledge Gained through the Certification.
- Showcase Expertise via a Capstone Project.

# Enrollment-Options

## Option-1

### **Certified MLOps Professional With E-Learning**

**Fast-track your career by learning a new skill and earning a certificate**

- ✓ Access expert videos and weekend 2-hour live sessions every Saturday with lifetime access
- ✓ 1 Certification Program
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ E-Learning Library Access
- ✓ Downloadable Resources-Book of Knowledge, Templates
- ✓ GSDC Membership

**ENROLL NOW**

## Option-2

### **Bundle**

**Create your own bundle with  
3 certification program**

- ✓ 3 Certification Program
- ✓ Access expert videos and weekend 2-hour live sessions every Saturday with lifetime access
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ E-Learning Library Access
- ✓ Downloadable Resources-Book of Knowledge, Templates
- ✓ GSDC Membership

**ENROLL NOW**

## **Option-1 Certified MLOps Professional with E-Learning**

### **Certified MLOps Professional with Digital Learning**

Fast-track your career by learning a new skill and earning a certificate

- ✓ E-Learning from Industry Experts
- ✓ 1 Certification Program
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ Downloadable Resources



**ENROLL NOW**

## Option-2

### Make Your Own Certified MLOps Professional Bundle

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

- Certified Cloud Computing Foundation
- Certified Machine Learning Professional
- Certified Cyber Security Foundation
- Certified Big Data Foundation
- Certified Artificial Intelligence Foundation

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

**BUY ANY**

**3**

**CERTIFICATIONS**

**[Claim Bundle Here !!!](#)**

## *Unlock Workforce Potential Through Skill Validation!*

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

**Register Now**



**100%**  
**MONEY BACK**

**GUARANTEE**

## **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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