

Certified Full Stack Data Scientist

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

The GSDC Certified Full-Stack Data Scientist (CFDS) credential validates end-to-end expertise in every part of the data science lifecycle, business problem framing, data engineering, advanced analytics, machine learning, deep learning, and model deployment.

The credential is globally recognized and designed for professionals who want to demonstrate not only technical skills but also business aptitude and product-oriented thinking. The CFDS provides an individual with knowledge of Python programming, statistics, machine learning, big data, and MLOps so that he or she can implement scalable solutions that have real-world impact.

A professional Certified Full-Stack Data Scientist is recognized as an all-rounder, proficient with the entire pipeline: from business needs into requirements, bugs into working validated models, and from production to maintenance. The certification focuses on applications, case studies, and industry-ready implementations, making it quite useful in analytics, AI, and digital transformation.

	Type	Online self-paced learning, Mocks
	Language	English (including subtitles)
	Access	12 months
	AI based Role play	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

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 Full Stack Data Scientist

GSDC's Full Stack Data Scientist Certification covers the complete data science lifecycle. Candidates learn to identify business problems, analyze data sources, transform data for ML algorithms, train models, and measure their effectiveness. The program includes practical case studies on topics like handwritten digit identification, recommendation engines, banking data analysis, cancer classification, object detection in live video feeds, and sentiment analysis for reviews.

This certification prepares candidates for the data scientist certification exam, showcasing their expertise in data science.

GSDC's Full Stack Data Scientist Certification sets a high standard for expertise in the field and equips professionals with the necessary knowledge and skills to make significant contributions to the data science industry.



Learning Objective

- ☐ Apply Python, SQL, and big data technologies effectively
- ☐ Master statistics, mathematics, and hypothesis-driven analysis
- ☐ Build, train, and optimize machine learning models
- ☐ Apply deep learning techniques for vision and NLP
- ☐ Design scalable pipelines and ensure data governance
- ☐ Deploy, monitor, and retrain models with MLOps practices
- ☐ Learn from case studies and real-world industry scenarios
- ☐ Use expert-crafted templates for faster project implementation

OBJECTIVES OF FULL STACK DATA SCIENTIST

Curriculum

1. Business Acumen & Product Management

- Business Analysis & Stakeholder Management
- Requirement Elicitation & Documentation
- Project Methodologies (Agile, Scrum, Kanban)
- Problem Framing & Solution Scoping
- Communication & Presentation Skills
- Value Proposition & Business Impact
- Risk Management & Prioritization

2. Python Programming for Data Science

- Core Python Fundamentals (Data Types, Control Flow)
- Object-Oriented Programming (OOP)
- Data Manipulation with Pandas & NumPy
- Data Visualization with Matplotlib & Seaborn
- Error Handling & Debugging
- Working with APIs & Web Scraping
- Code Versioning with Git & GitHub

3. Statistics and Mathematics for Data Science

- Probability Theory & Distributions
- Descriptive & Inferential Statistics
- Hypothesis Testing & A/B Testing
- Linear Algebra for Machine Learning
- Calculus Fundamentals for Optimization
- Dimensionality Reduction (PCA, t-SNE)
- Statistical Modeling & Regression Analysis

4. Data Engineering and SQL

- Database Fundamentals (Relational vs. NoSQL)
- Advanced SQL Queries & Window Functions
- Data Warehousing Concepts
- Building ETL/ELT Pipelines
- Data Governance & Quality
- Big Data Ecosystem (Hadoop, Spark)
- Cloud Data Services (e.g., AWS S3, Google BigQuery)

5. Machine Learning Fundamentals

- Supervised Learning (Regression & Classification)
- Unsupervised Learning (Clustering & Association)
- Model Evaluation Metrics (Accuracy, Precision, Recall)
- Cross-Validation & Hyperparameter Tuning
- Bias-Variance Tradeoff
- Feature Selection & Engineering
- Ensemble Methods (Random Forest, Gradient Boosting)

6. Deep Learning & Advanced AI

- Introduction to Neural Networks & Perceptrons
- Activation Functions & Backpropagation
- Convolutional Neural Networks (CNNs) for Computer Vision
- Recurrent Neural Networks (RNNs) for Sequential Data
- Natural Language Processing (NLP)
- Transfer Learning
- Deep Learning Frameworks (TensorFlow, PyTorch)

7. MLOps & Deployment

- DevOps Principles for ML
- Containerization with Docker
- Orchestration with Kubernetes
- CI/CD Pipelines for ML Models
- Model Serving & API Development
- Monitoring & Logging
- Model Retraining & Versioning

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

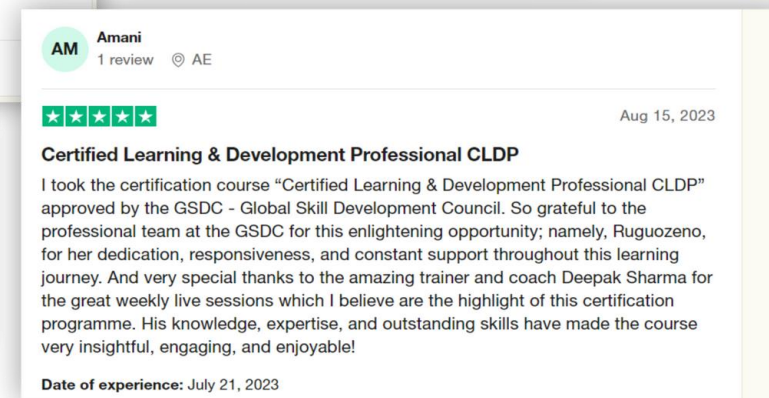
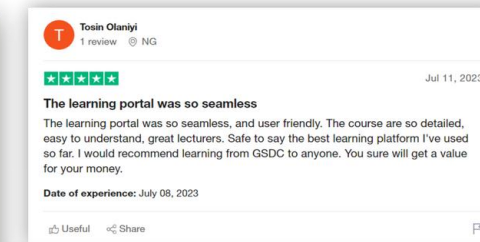
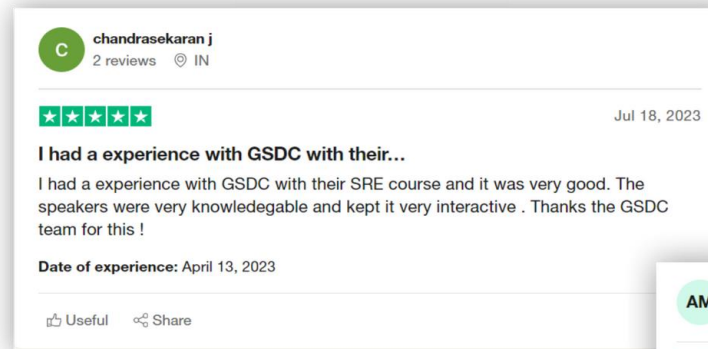
Learn to implement applicability of knowledge with real life simulation based games.

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.



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



☐ **Lifelong Learning Journey:**

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



☐ **Career-Boosting Network:**

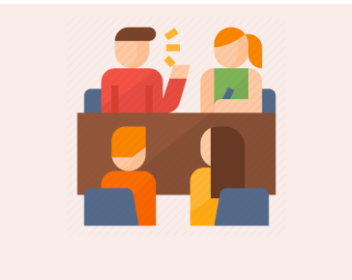
Connect with fellow professionals in the field, creating valuable relationships that can propel your career in the world of Generative AI

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.

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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