



CERTIFICATION PROGRAM

ADVANCE DATA ENGINEERING WITH **APPLIED GENAI** & AGENTIC AI

A structured, mentor-led career transformation program that takes working professionals from core data engineering fundamentals to building production-grade GenAI and Agentic AI systems — taught by an 18+ year industry veteran.

4-Month Foundation Track

Advanced GenAI & Agentic AI Track

Hands-on Capstone Projects

Mentor-led by Deepesh Mishra



WHY THIS PROGRAM EXISTS

Are you someone who feels stuck in your career growth?

After investing years into IT — 2, 5, even 10+ years of experience — you know the tools, you've shipped the projects, but you don't know **when or how to take the next leap**. The market has moved from traditional data pipelines to AI-powered, agentic data systems, and the professionals who adapt first are the ones who get promoted, get hired, and get paid more.

This program is built to close exactly that gap — turning experienced data professionals into **Expert Data Engineers with Applied GenAI & Agentic AI** skills that today's top employers are actively hiring for.

Building the Technology Capabilities Your Career Needs

Datamarcos is a global technology learning and workforce upskilling partner. We help professionals and organizations identify skill gaps, design role-based learning paths, and deliver high-impact training across Data, AI, Cloud, Software Engineering, DevOps and emerging technologies.

Our Mission

To make advanced, industry-relevant technology skills accessible to every working professional — not just theory, but skills that translate directly into career growth.

Our Approach

Concepts made simple with real-world examples, hands-on learning with projects that matter, and personalized guidance that continues beyond the classroom.

Who We Serve

Corporate teams, academic institutions, and individual professionals across Data Engineering, Cloud, AI/ML, DevOps, and Software Engineering domains.

25,000+

PROFESSIONALS TRAINED

200+CORPORATE & ACADEMIC
CLIENTS**10+**

COUNTRIES WORLDWIDE

1,000+

WORKSHOPS & SESSIONS

Organizations That Have Trained With Us

Deloitte

EY

Adobe India

Yahoo Singapore

HSBC

Bank of America

PwC

Boeing

Reliance

Micro Focus

ZS Associates

IITs & IIMs

and 200+ more

KNOW YOUR MENTOR



Deepesh Mishra

Founder, Datamarcos · Corporate Trainer · Solution Architect · Tech Expert

- ✓ **BITS Pilani Alumni** — M.Tech, strong academic foundation
- ✓ **18+ years of experience** spanning AI/ML, Data Engineering, and Cloud Architecture (AWS, Azure, GCP)
- ✓ **AI Tool Power User** — hands-on expert across leading AI platforms and modern data stacks
- ✓ **Industry-trusted trainer** to global leaders including Deloitte, EY, Adobe, Yahoo, HSBC, Boeing and Reliance
- ✓ Delivered enterprise training programs to **HSBC, Bank of America, Deloitte, EY, PwC, Adobe India** and **Yahoo Singapore**, plus academic institutions including **IITs and IIMs**

My Teaching Philosophy

- ✓ Concepts made simple with real-world examples
- ✓ Focused on building skills that boost your career
- ✓ Hands-on learning with projects that matter
- ✓ Personalized guidance and continuous support

"Hi, I am Deepesh Mishra and I will be your mentor for this program. Learn. Apply. Grow. Succeed. Let's build your future with the power of AI."

Deepesh Mishra — Founder, Datamarcos

WHY LEARN WITH DEEPESH MISHRA

Real Experience. Real Impact. Real Growth.

25,000+

PROFESSIONALS TRAINED

200+

CORPORATE CLIENTS

10+

COUNTRIES

1,000+

SESSIONS DELIVERED

Academic Excellence

BITS Pilani Alumni — strong foundation, proven excellence.

18+ Years of Experience

Corporate Trainer, Solution Architect, Tech Expert.

Industry Trusted Trainer

Worked with global leaders like Deloitte, EY, Adobe, Yahoo, HSBC, Boeing & Reliance.

Practical. Relevant. Impactful.

No theory-only sessions. Real projects, real use cases, real results.

What I Teach

GenAI

Agentic AI

Data Engineering

Azure

AWS

Snowflake

Databricks

Python

Spark

Who Should Take This Program

Designed for professionals who already work with data, build data products, or want to move into high-growth Data Engineering + AI roles. Ideal for anyone with 1–10 years of experience across data, analytics, software, or related domains who wants to upskill or transition — no advanced tech background required to begin.



Analytics / BI Professional (2–5 yrs)

Works on reports & dashboards. Wants to move beyond Excel/SQL into building scalable data pipelines and platforms.

Career Growth → Data Engineer / Data Platform Engineer



ETL Developer / Integration Engineer (2–6 yrs)

Builds ETL workflows with traditional tools. Wants modern cloud, automation, and GenAI skills for data engineering.

Career Growth → Senior Data Engineer / Cloud Data Engineer



Software / Backend Developer (1–5 yrs)

Works with application data. Wants to expand into data engineering, real-time systems, and AI-driven solutions.

Career Growth → Data Engineer / ML Data Engineer



Database Administrator (3–8 yrs)

Manages databases. Wants to move up the stack into modern data platforms and cloud analytics.

Career Growth → Data Engineer / Data Architect

Prerequisites & Eligibility

- ✓ Basic understanding of databases (SQL is a must)
- ✓ Familiarity with any programming language (Python preferred)
- ✓ Understanding of data concepts (files, formats, joins, aggregations)
- ✓ Experience working with data in any role (analyst, developer, BI, support, etc.)
- ✓ Cloud knowledge is a plus, but not mandatory
- ✓ We provide pre-course Python & SQL refreshers for all participants

Two Tracks. One Career Transformation.

The program is structured into two connected tracks so every learner — regardless of starting point — gets a clear, guided path from strong fundamentals to advanced, job-ready AI-powered data engineering skills.

TRACK 1

4-Month Foundation Program

A month-by-month, cohort-based track covering modern data engineering end-to-end: data lakes, pipelines, orchestration, streaming, and cloud platforms (Azure, AWS, Snowflake, Databricks).

- ✓ 4 structured months, weekend/evening live sessions
- ✓ Hands-on labs every module
- ✓ Ends with an end-to-end capstone project

TRACK 2

Advanced GenAI & Agentic AI Program

A specialization track for engineers ready to go beyond pipelines — building LLM-powered, agentic, and intelligent data applications on top of what they already know.

- ✓ LangChain, LangGraph, RAG, CrewAI & Agentic AI systems
- ✓ Snowflake Cortex AI & Databricks Mosaic AI
- ✓ Capstone: a production-style Agentic AI data application

What You Will Build

Scalable Data Pipelines

Cloud Data Solutions

Real-time Data Processing

Data Lake & Warehousing

GenAI-Powered Applications

Agentic AI Workflows

RAG-based Assistants

End-to-End Capstone Project

4-Month Foundation Program

Design. Build. Orchestrate. A guided, month-by-month journey into modern, cloud-native data engineering.

Month 1 · Foundations & Cloud Data Lakes

WEEK 1–4

Python & SQL refresher, data engineering concepts, file formats, joins & aggregations, Azure Data Lake fundamentals, and setting up your first cloud data environment.

Python

SQL

Azure Data Lake

Data Modeling

Month 2 · Pipelines, PySpark & Orchestration

WEEK 5–8

PySpark for distributed data processing, structuring and cleaning large datasets, building pipelines with Azure Data Factory, and workflow orchestration.

PySpark

Data Structuring

Azure Data Factory

Delta Lake

Month 3 · Multi-Cloud, Databricks & Streaming

WEEK 9–12

AWS data services, Databricks lakehouse architecture, real-time processing with Spark Structured Streaming, plus data quality with Great Expectations and dbt-style transformations.

AWS

Databricks

Spark Structured Streaming

dbt

Month 4 · Capstone & GenAI Introduction

WEEK 13–16

End-to-end capstone: ingest → process → store → analyze on a real-world dataset, an introduction to GenAI-powered data applications, resume & interview preparation, and certification.

Capstone Project

GenAI Intro

Interview Prep

Advanced GenAI & Agentic AI Program

For data engineers ready to become experts in Applied GenAI & Agentic AI — the next leap after core data engineering.

Module 1 · Applied GenAI Foundations

LLMs & PROMPTING

Working with Large Language Models, prompt engineering, embeddings & vector databases, and connecting LLMs to real data pipelines.

LLM Fundamentals

Vector DBs

Embeddings

Module 2 · Retrieval-Augmented Generation (RAG)

RAG SYSTEMS

Building production-grade RAG pipelines with LangChain, chunking & retrieval strategies, and grounding LLM responses in enterprise data.

LangChain

RAG

Retrieval Strategies

Module 3 · Agentic AI Systems

AGENTS & ORCHESTRATION

Designing multi-step, tool-using AI agents with LangGraph and CrewAI, agent orchestration patterns, and connecting agents to enterprise data systems.

LangGraph

CrewAI

Agent Orchestration

Module 4 · Enterprise AI Platforms & Capstone

PLATFORM AI

Snowflake Cortex AI and Databricks Mosaic AI for platform-native GenAI, followed by a capstone: building a production-style Agentic AI data application end-to-end.

Snowflake Cortex AI

Databricks Mosaic AI

Capstone Project

Technologies & Tools You Will Master

Across both tracks, you'll get hands-on with the exact stack that modern data & AI teams use in production — not just theory slides.

Azure	AWS	Snowflake	Databricks
PySpark	Delta Lake	Kafka	Airflow
dbt	Great Expectations	SQL	Python
Git	LangChain	LangGraph	CrewAI
RAG Pipelines	Vector Databases	Snowflake Cortex AI	Databricks Mosaic AI

Industries Actively Hiring Data Engineers

IT & Software	BFSI	E-commerce	Healthcare
Telecom	Manufacturing	Logistics	Media & Entertainment

Why Now?

- ✓ Organizations are generating more data than ever before
- ✓ Every company is becoming data-driven and AI-first
- ✓ High demand for data engineers with cloud, data platform & GenAI skills
- ✓ Future-proof your career and unlock exciting, high-growth opportunities

Practical. Relevant. Impactful.

No theory-only sessions. Every concept is taught through real-world examples, hands-on labs, and projects that mirror what you'll actually build on the job.

Live, Mentor-Led Sessions

Small-batch, interactive sessions led directly by Deepesh Mishra, with real-time Q&A and doubt resolution.

Hands-on Labs & Projects

Every module includes lab work on real datasets — not just slides. You build the pipeline, not just watch it.

Capstone Projects

Each track ends with an end-to-end, portfolio-ready capstone project you can showcase to employers.

Continued Mentorship

Support doesn't end at the classroom — get guidance beyond sessions as you apply skills at work.

Program Includes

- ✓ Hands-on projects & real-world use cases
- ✓ Learn directly from an industry expert
- ✓ High-growth career opportunities
- ✓ Industry-relevant, up-to-date curriculum
- ✓ Capstone projects for job-readiness
- ✓ Certificate of Completion



Real Sessions. Real Learners.

A glimpse into Datamarcos live corporate and cohort training sessions delivered by Deepesh Mishra and team.



What Our Learners Say

★★★★★

"So sir, in this journey I have learnt many things — without you it wouldn't have been possible sir. Thank you so much for making me a Data Engineer."

Raghul K — Learner, Data Engineering Track

"As a complete beginner in Data Engineering, I was confused where to start. Learning under Deepesh Sir has been a great opportunity — all my doubts were dispelled and I honed my skills with great hands-on activities and industry insights. He is truly a great mentor."

Ansh Ranjan — Manipal University Jaipur '24, Data Engineer Trainee at Hexaware Technologies

"I had the privilege of attending a two-day training session on Generative AI conducted by Deepesh Sir. His deep understanding, combined with a clear and engaging teaching style, made complex concepts easy to grasp — even for those new to the field. Highly recommend his mentorship."

Kumar Gaurav — Senior Azure Data Engineer @ PwC, Ex-EY, Ex-Genpact

★★★★★

"I had an excellent experience. The program was well-structured, engaging, and highly practical. What I liked most was the balance between theory and application — it wasn't just about passing a test, but truly understanding the platform and applying it to real-world problems."

Corporate Training Participant — Post-training Feedback Survey

Where This Program Takes You

Whether you're moving up from analytics, integration, backend development, or database administration — this program is mapped to real career progression paths.

Starting Point	Experience	Career Growth After Program
Analytics / BI Professional	2–5 yrs	Data Engineer / Data Platform Engineer
ETL Developer / Integration Engineer	2–6 yrs	Senior Data Engineer / Cloud Data Engineer
Software / Backend Developer	1–5 yrs	Data Engineer / ML Data Engineer
Database Administrator	3–8 yrs	Data Engineer / Data Architect
Data Engineer (Foundation Track grad)	Any	AI/Agentic Data Engineer, GenAI Solutions Engineer

Roles You Become Ready For

Data Engineer

Cloud Data Engineer

Senior Data Engineer

Data Platform Engineer

ML Data Engineer

Data Architect

GenAI Solutions Engineer

Agentic AI Engineer

Certificate of Completion

Every learner who completes the program receives a Datamarcos Certificate of Completion, validating hands-on proficiency across the full Data Engineering + Applied GenAI & Agentic AI stack.

GET STARTED

Learn. Apply. Grow. Succeed.

Let's build your future with the power of AI. Reach out to the Datamarcos team to know upcoming batch dates, fees, and enrollment steps for the 4-Month Foundation Program and the Advanced GenAI & Agentic AI Program.

Ready to Take the Next Leap?

Become an Expert Data Engineer with Applied GenAI & Agentic AI.

CONTACT US TO ENROLL

OFFICE ADDRESS

C-908, Sector 62, Noida, Uttar Pradesh, India

WEBSITE

www.datamarcos.com

FOUNDER & MENTOR

Deepesh Mishra

PROGRAM

Advance Data Engineering with Applied GenAI & Agentic AI



DATAMARCOS

© Datamarcos IT Consulting Firm · All Rights Reserved