DATAMARCOS

PROGRAM BROCHURE 2026

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


**OFFICE**
C-908, Sector 62, Noida, Uttar Pradesh

**WEBSITE**
www.datamarcos.com

**MENTOR**
Deepesh Mishra, Founder

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.

ABOUT US

10+
COUNTRIES

# 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+ | 200+ | 10+ | 1,000+ |
|---|---|---|---|
| PROFESSIONALS TRAINED | CORPORATE & ACADEMIC CLIENTS | COUNTRIES WORLDWIDE | 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
- ✓ Hands-on learning with projects that matter
- ✓ Focused on building skills that boost your career
- ✓ 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+ | 200+ | 10+ | 1,000+ |
|---|---|---|---|
| PROFESSIONALS TRAINED | CORPORATE CLIENTS | COUNTRIES | 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

IS THIS PROGRAM FOR YOU?

# 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

PROGRAM STRUCTURE

# 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** |

TRACK 1 · CURRICULUM

# 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

TRACK 2 · CURRICULUM

# 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

# 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

HOW YOU LEARN

# 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



TRAINING IN ACTION

# Real Sessions. Real Learners.

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







SUCCESS STORIES

# 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

CAREER OUTCOMES

# 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. Fees and EMI options shared on a counsellor call. Reach out to the Datamarcos team for upcoming batch dates 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**

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**FOUNDER & MENTOR**
Deepesh Mishra

**PROGRAM**
Advance Data Engineering with Applied GenAI & Agentic AI

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