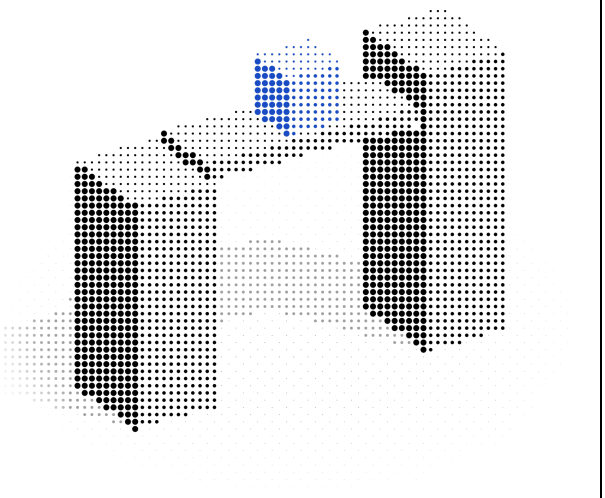
AI Forward Deployed Engineer Program

Learn to turn a client's business problem into an AI system their team can use, monitor and improve.



THE LEARNING PATH

Discover. Build. Deploy.

From first script to final handover.

6 months
WEEKEND FORMAT

156 hours
LIVE TEACHING

30 modules
SEVEN PHASES

01 / PROGRAM OVERVIEW

Is this program for you?

A Forward Deployed Engineer (FDE) works alongside a client's team: understand the workflow, build with its data and systems, then stay through deployment and handover.

LIVE TEACHING

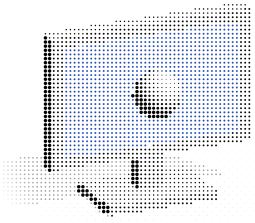
Your weekend

Saturday and Sunday, three hours each. All 52 sessions are live and recorded for revision.

LEARNING FORMAT

Your cohort

15–20 learners, with 1:1 project reviews. Join online across India; Noida labs and capstone days are optional.



CHOOSE YOUR STARTING POINT

A	**Week 1 / Start from zero** For final-year students, fresh graduates and career switchers. No coding or work experience required.
B	**Week 7 / Bring your Python skills** Pass a practical check in Python, Git and core computer science to start with data and APIs.
C	**Week 13 / Start with applied AI** For people already shipping services. Pass the phase 1–3 checks, including a design that prevents double charges.

Plan for about 6–9 hours of guided practice between weekends (proposed). Admissions confirms the schedule and workload before enrolment.

02 / CURRICULUM • PHASES 01-02

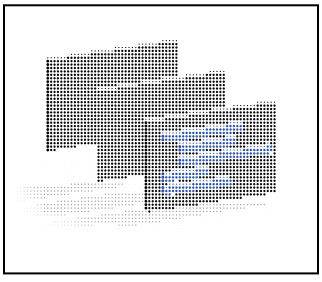
From Python to APIs

The 26-week curriculum covers 182 topics. Start with a tested script, then connect it to live data. The full topic outline is in this PDF's attachments.

PHASE 01 / WEEKS 1-6 / 36 LIVE HOURS

Engineering foundations

M00	The FDE role and mindset
M01	Python: from first script to tested code
M02	Git, Linux, debugging and code review
M03	Problem solving and core computer science



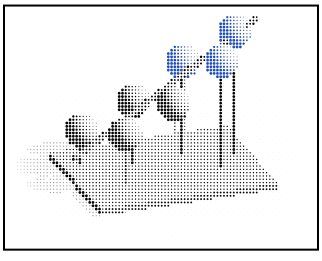
BUILD

A published Python command-line tool that audits an order export, with tests, a README and a reviewed pull request.

PHASE 02 / WEEKS 7-9 / 18 LIVE HOURS

Data, SQL and APIs

M04	SQL and databases
M05	Building and consuming APIs
M06	Data wrangling and integration pipelines



BUILD

A FastAPI service and Streamlit dashboard that combine database records with data from a third-party API.

Tools: Python, Git, GitHub, Linux, VS Code, PostgreSQL, MySQL, MongoDB, pandas, FastAPI, Pydantic and Streamlit.

03 / CURRICULUM • PHASES 03-04

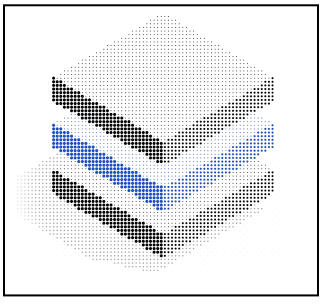
Deploy, then add AI

Make a service reliable before adding a model. Practise choosing between rules, machine learning and an LLM for the task at hand.

PHASE 03 / WEEKS 10-12 / 18 LIVE HOURS

Production engineering and systems

M07	Testing, quality and CI/CD
M08	Docker, configuration and deployment
M09	Cloud fundamentals
M10	Distributed systems and system design



BUILD

A monitored cloud service with automated tests and a refund endpoint you can safely retry after a failure.

PHASE 04 / WEEKS 13-16 / 24 LIVE HOURS

Discovery, models and retrieval

M11	Discovery, scoping and commercial judgement
M12	Machine learning and LLM fundamentals
M13	Prompt design, context and model strategy
M14	Production and enterprise retrieval
M15	Data platforms and governed analytics

BUILD

A scoped knowledge service that respects user permissions, with a measured baseline, data lineage and a retrieval benchmark.

Tools: pytest, GitHub Actions, Docker, AWS, Google Cloud, Azure, OpenAI and Anthropic APIs, Ollama, FAISS and Chroma.

04 / CURRICULUM • PHASE 05

Build an agent people control

Design an agent that can use tools, pause for approval and resume after an interruption. Decide which steps belong in ordinary code.

WEEKS 17-20	24 LIVE HOURS	5 MODULES

M16 **Agent patterns and durable workflows**

M17 **Agent platform engineering**

M18 **Model Context Protocol (MCP), tool interfaces and secure integration**

M19 **TypeScript for agents and operator interfaces**

M20 **Demos, communication and client environments**

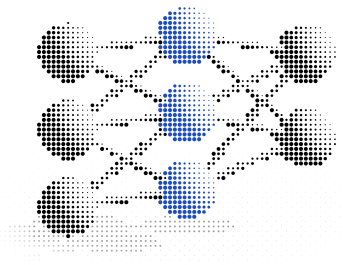
PHASE DELIVERABLE

A working operator interface

An agent with scoped tools for two systems, safe retries, a human approval step and a TypeScript operator interface.

AT THE WORKBENCH

Demonstrate what happens if a tool times out after writing a record. Can the operator resume the workflow without repeating the action?



Tools: LangGraph for workflows, MCP for tool connections, TypeScript and React for the operator interface.

05 / CURRICULUM • PHASE 06

Know when it's safe to ship

Use evidence to decide whether a model change should reach users. Measure accuracy alongside permissions, reliability, latency and cost.

WEEKS 21-24	24 LIVE HOURS	5 MODULES

M21 **Evaluation engineering, error and transcript analysis**

M22 **Release gates, online experiments and model migration**

M23 **AI security, safety and governance evidence**

M24 **Cloud deployment, Kubernetes and infrastructure as code**

M25 **Reliability, observability and cloud cost management**

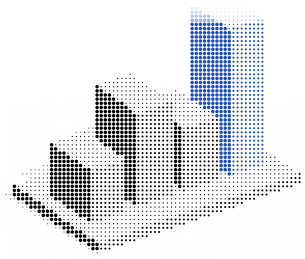
PHASE DELIVERABLE

A tested release decision

A release review pack: a test suite built from traces, calibrated scoring, a regression gate and a threat model. Deploy to Kubernetes, set reliability targets and run a failure drill.

AT THE WORKBENCH

A new model improves the average score but breaks an important task. Show which test catches the regression and what would justify a rollback.



Tools: Kubernetes, infrastructure as code, CI quality gates, and Langfuse or LangSmith for tracing.

06 / CURRICULUM • PHASE 07

From build to handover

Show that someone else can operate what you built. Explain the architecture, the trade-offs and what your evidence can and cannot prove.

WEEKS 25-26	12 LIVE HOURS	4 MODULES

M26 **Reusable delivery, productisation and team design**

M27 **Pre-sales, customer enablement and technical leadership**

M28 **Capstone engagement and individual oral defence**

M29 **Interviews and career launch**

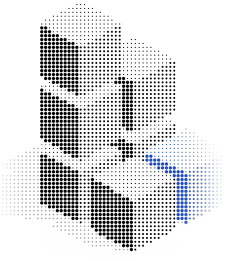
PHASE DELIVERABLE

Your capstone and oral defence

An end-to-end capstone, a customer enablement workshop and one published technical piece. Present your decisions to a panel and hand over a system another team can run.

AT THE WORKBENCH

Walk the panel from discovery to a deployed sandbox: two integrations, access controls, bounded agent actions and an evaluation suite. Present the limits and a 90-day adoption plan.



Portfolio: seven phase deliverables, reviewed individually and brought together in one engagement pack.

07 / PEOPLE & PRACTICE

Meet your instructors

A mentor reviews each phase project with you. The work is accepted or returned with specific notes so you know what to improve.



10+ years

Pankit Kumar

Lead instructor · Senior Data Scientist, Parexel

Leads engineering, data and delivery. His teaching experience includes Boston Institute of Analytics, AnalytixLabs and Scaler.



7+ years

Sumit Choudhary

Data Scientist · Formerly Pfizer and Amity University

Brings experience building validated APIs for bioanalytical models and working with anomaly detection and audit-ready reporting.



9+ years

Ishaan Sharma

Senior Data Scientist · Nuvo AI (Meril Life Sciences)

Teaches models, retrieval, agents and evaluation. Holds an MSc in Computer Science from Georgia Institute of Technology.



9+ years

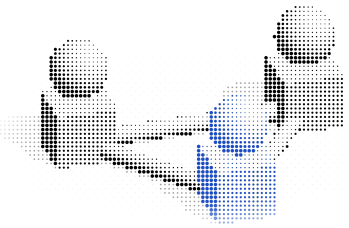
Ajay Sharma

Instructor · Analytics and Data Science, Ex-IBM

Led an analytics engagement for an insurance client at IBM. Earlier work includes predictive maintenance at Elia Transmission and AI/ML solutions at Quantiphi.

YOUR WEEKLY ROUTINE

Learn live, practise between sessions, review your code with a mentor and submit a working deliverable at the end of each phase.



08 / ASSESSMENT & CAREERS

How your work is assessed

Weekly skills checks and graded assignments track progress. Discovery roleplays, recorded demos and phase reviews prepare you for the capstone.

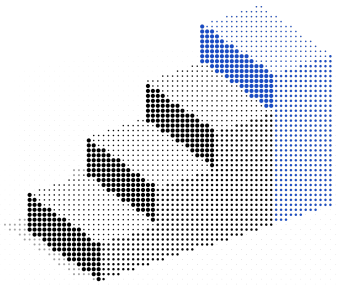
CAPSTONE SCORING / PROPOSED

Engineering and integration	25%
AI quality and evaluation	25%
Security and operations	20%
Client and business delivery	20%
Handover and oral defence	10%

A polished demo cannot offset an unauthorised write, a data leak between clients or a result that cannot be reproduced.

CAREER PATHWAYS

Roles include Associate FDE, Solutions or Implementation Engineer, AI/GenAI Engineer, Agent Platform Engineer, AI Solutions Architect and AI Delivery Lead. Senior roles also depend on prior experience.



SUPPORT FOR ELIGIBLE LEARNERS

Portfolio and GitHub reviews, mock interviews, assured interviews, placement assistance, Tier 1 and Tier 2 referrals, and a post-course internship.

Attendance and capstone criteria apply. Employers make final hiring decisions.

09 / COMPLETION & ADMISSIONS

Your NeuraPath certificate

Earn a certificate with a unique credential ID when you meet the attendance, build, demo and assessment criteria.



SAMPLE CERTIFICATE / SHOWN FOR ILLUSTRATION

Find your entry point

Book a counsellor call and complete the skills check. Get your cohort dates and fees in writing before enrolling and receiving portal access.

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