



Launchpoint
BY MINDFORGEAI



CHATAKE INNOWORKS
PRIVATE LIMITED

AI & ENGINEERING LEARNING + TRAINING

Learn the science. Build the skill. Build what comes next.

A proposed 16-week common core, followed by an optional four-week specialist pathway.

Proposed January 2027 cohort · Discussion edition · 27 October 2026



Illustrative campaign image created with Canva AI; not a facility photograph.



A PROGRAMME WITH BOTH HALVES

Understanding becomes engineering capability.

A model-fitting tutorial is a beginning. Engineering practice asks what the data means, how a system fails and whether another person can reproduce the result.

01 / LEARN

Explain the principle.

Guided concepts, worked examples and knowledge checks develop a shared technical foundation.

02 / TRAIN

Demonstrate the skill.

Supervised practical tasks turn a principle into code, an experiment and an inspectable result.

03 / BUILD

Integrate the system.

A scoped capstone connects data, models, software, evaluation and a reproducible handover.

04 / DEFEND

Own the decisions.

Individual contribution records and a technical defence keep reasoning visible inside team work.

The learner evidence portfolio

Versioned code, a data/provenance record, baseline comparisons, evaluation, tests, a technical report, a demonstration and an individual explanation.

A VISIBLE ACADEMIC STRUCTURE

Twelve courses. One engineering foundation.

Every course plan specifies four units, prerequisites, learning/training hours, a practical brief, required evidence and a defence question.

AI101	Engineering foundations: Python, Linux & Git	40h
MTH110	Mathematics for learning systems	24h
DAT120	Data science: SQL, EDA & statistical reasoning	32h
ML201	Machine learning: baselines to reliable decisions	40h
DL301	Deep learning: DNNs, PyTorch, CNNs & sequences	32h
NLP310	Language engineering: text to transformers	24h
AI320	Generative AI, RAG & bounded agentic workflows	24h
MLO401	Software delivery for AI: APIs, tests, Docker & CI	32h
MLO410	MLOps: versioning, experiments, pipelines & monitoring	24h
RES420	Scientific modelling, digital twins & research practice	16h
PRO430	Engineering communication & career evidence	12h
CAP490	Industry capstone & individual technical defence	73h 20m

Core plans span Git/Linux/Python, mathematics, SQL/EDA/statistics, ML, DNNs/PyTorch/vision/sequences, language and generative AI, Docker/APIs/tests/CI, MLOps, scientific research, communication and capstone work.



SIXTEEN WEEKS / ONE SHIFT PER LEARNER

Time for learning. Time for training.

The proposed weekday shifts are 08:30–13:30 and 15:00–20:00. Final dates, venue and staffing will be confirmed before enrolment.

400h

Scheduled core attendance

16 weeks × five days × five-hour shift

373h 20m

Productive learning and training

After 26h40m of scheduled breaks

149h 20m

Guided learning allocation

Concepts, worked examples and guided review

224h

Practical training and evidence

Labs, project work, evaluation and technical defence

A paced progression

Each core week allocates 18h45m to sequential core courses and 4h35m to capstone work. Planning starts at orientation; model implementation follows ML201 and service integration follows MLO401.



FOUR MORE WEEKS / CHOOSE ONE DIRECTION

A shared foundation. A focused next step.

The extension adds 93h20m productive time within 100 scheduled hours: two selected 24-hour specialist studios and 45h20m of project deepening.

01 Applied ML Engineer

ML210 + ML220 · A reproducible decision service with feature contracts and documented errors.

02 Generative AI & Agent Engineer

AI340 + AI350 · A source-grounded assistant with evaluated retrieval, bounded tools and approval gates.

03 Deep Learning & Vision Engineer

CV320 + DL310 · A visual-inspection prototype with held-out scene evaluation and a profiled model.

04 Robotics & Autonomous Systems

ROB301 + ROB310 · A simulated ROS 2 perception/localisation workflow with replay and transform evidence.

05 MLOps & AI Platform Engineer

MLO420 + MLO430 · A versioned model service with release controls, monitoring and a recovery drill.

06 Scientific AI & Research

RES430 + RES440 · A reduced-order twin and reproducible research package with carefully bounded claims.

The wider catalogue contains 30 specialist plans, including ROS 2, DRL, graphs, recommendation, causality, 3D vision, audio, distributed training and edge AI. They are not all included or scheduled in one cohort.

A REAL RECORD TO BUILD FROM

Work takes shape between people.

Earlier programme activity offers a view of learners explaining, reviewing and developing their thinking. Historical outcomes are kept in their original context.



Actual photograph · earlier programme studio activity.

Original projects and wider systems

The ecosystem provides learning context: the internship project portfolio, Apollo research systems, GFIS modelling, MLOps Academy, Jigyasa workshops and MindForgeAI Learn. Demonstration and research platforms retain their own validation and access boundaries.



The project catalogue
mindforgeai.co.in/projects/



The internship archive
internship.chatakeinnetworks.com

EVIDENCE BEFORE THE CREDENTIAL

The work should stand up to questions.

The proposed scheme makes practical work and individual reasoning visible. Final criteria require written adoption before enrolment.

40%

Course labs & reviews

Technical correctness, reproducibility, interpretation and documented review.

40%

Capstone system

A scoped problem, baseline, implementation, validation, limitations and handover.

20%

Individual defence

An explanation of decisions, failure cases and personally evidenced contribution.

Proposed completion gates

80% attendance; 60/100 overall; at least 50% in the individual defence; required evidence; integrity and data-safety clearance. Browser practice scores are personal study records, not official assessment.



MAKE THE COMMITMENT AN INFORMED ONE

Find your starting point. Then choose the work.

Review the curriculum and readiness route. A meaningful programme begins with clear expectations about time, support, costs and the work you will produce.

01

Review the programme.

Explore the 42 coded plans, common core, specialist options and supervised practical briefs.

02

Discuss the fit.

Confirm prerequisites, approved calendar, venue, accessibility, staffing and college credit recognition.

03

Read the written terms.

Paid professional training. Commercial terms are separate. Formal admissions, payment and official assessments require operational approval.



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Career, postgraduate and publication guidance support preparation; employment, admission, peer-review acceptance and indexing remain independent decisions.