INSTITUTIONAL PARTNERSHIP PROPOSAL | 2026

Industry Training, Internship & Project Education

Prepared for Sangameshwar College, Solapur (Autonomous)

BBA • BCA • M.Sc. Computer Science

A progressive pathway from digital fluency to applied AI, automation, industry projects and reproducible machine-learning research.

FOUNDATION	APPLICATION	PROJECT / RESEARCH
Year 1 BBA/BCA 4 weeks	Year 2 BBA/BCA 6 weeks	Year 3 BBA/BCA 9-12 weeks
Begin with guided practice	Build and test a useful solution	Deliver, document and defend

M.Sc. CS - Year 1	M.Sc. CS - Year 2
6-week Applied ML Scientist Foundation	12-week ML Scientist Residency

CHATAKE INNOWORKS

Prepared by Chatake Innoworks Private Limited

MindForgeAI | Industry learning and project practice

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For institutional discussion and joint academic approval

Contents & reading guide

Start with page 3 for the complete course/year offer. Read your programme page, then the shared delivery and assessment sections. The final evidence pages show the prior cohort, studio and innovation pathway.

All page references include the cover. Print A4 at actual size; duplex, flip on long edge. This is an institutional proposal, not an executed agreement or accreditation claim.

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01 / INSTITUTIONAL PROGRAMME

Programme at a glance

Sangameshwar College, Solapur (Autonomous)

We offer a progressive industry-learning pathway through guided practicals, mentored projects and assessed evidence. BBA develops business application; BCA develops systems; M.Sc. CS develops ML research and engineering.

Course / year	Duration	What students learn	How we deliver	What students produce
BBA Year 1	4 weeks Level 1	AI literacy, spreadsheets, business data and communication.	Guided business cases, customer-journey mapping and a team challenge.	Decision dashboard, mini-report and presentation.
BBA Year 2	6 weeks Level 2	Business analytics, workflow automation and predictive decision support.	Map a process, analyse data, automate, pilot with users and improve.	Tested workflow/dashboard, value assessment and demo.
BBA Year 3	9–12 weeks Level 3	Industry project in marketing, operations, customer insight or entrepreneurship.	Mentored discovery, business study, prototype, field/user review and viva.	Final project report, implementation plan and portfolio.
BCA Year 1	4 weeks Level 1	Python, computational thinking, data handling, Git and responsible AI.	Guided coding/notebook labs, debugging and a small team build.	Working mini-project, source files and demonstration.
BCA Year 2	6 weeks Level 2	Python/SQL, APIs, automation, dashboards and introductory ML.	Build in weekly sprints; compare a baseline, test and package an application.	Tested app/automation, repository and user guide.
BCA Year 3	9–12 weeks Level 3	Software/AI capstone with optional IoT or robotics simulation.	Requirements, architecture, Git collaboration, tests, Docker and deployment.	Deployed or controlled demo, repository, report and viva.
M.Sc. CS Year 1	6 weeks	Advanced ML foundation, validation, neural networks and one specialisation.	Supervised EDA, leakage-safe pipelines, model comparison and experiments.	Reproducible ML study, model card and inference demo.
M.Sc. CS Year 2	12 weeks	Research-led ML, NLP/vision/time series, MLOps or robotics perception.	Literature review, baselines, ablations, advanced experiments and deployment.	Research project, dissertation, deployed demo and defence.

Common delivery workflow

Orient and diagnose → Learn and practise → Build with mentor reviews → Test and improve → Report, demonstrate and defend

All tracks include learning resources, workspace guidance, individual/group diaries, feedback and assessment. Completion is based on verified work. The 12-week final-year option adds deeper validation and deployment hardening to the 9-week studio.

To schedule delivery: jointly confirm cohort size, dates, campus/online/hybrid mode, laboratory access, faculty coordination and fees.

02 / INSTITUTIONAL PROGRAMME

Formal proposal

For institutional discussion and joint academic planning

To,
The Principal and the Heads / Coordinators
BBA, BCA and M.Sc. Computer Science
Sangameshwar College, Solapur (Autonomous)

Subject: Proposal for a progressive industry-training, internship and final-year project pathway

Respected Sir/Madam,

Following our academic interaction during the BBA-BCA induction programme, Chatake Innoworks Private Limited, through its MindForgeAI education and project practice, is pleased to present this structured proposal for an institution-linked industry learning pathway.

The proposal is designed as a progression ladder. First-year students receive guided digital and AI fluency; second-year students advance to automation and applied problem solving; final-year BBA and BCA students complete a controlled project studio; and M.Sc. Computer Science students follow a rigorous machine-learning pathway centred on reproducibility, research discipline, deployment and professional evidence.

Every track connects learning to a visible evidence chain: problem framing, research log, dataset or business evidence, working artefact, repository, testing record, report, presentation and reflective learning. Assessment, responsible-AI practice, privacy, team governance and academic integrity are integrated throughout delivery.

Cohort size, dates, venue, delivery mode, faculty coordination, infrastructure, fees and certificate wording remain subject to written institutional approval. The attached draft MoU format is provided to help both parties record those decisions clearly before commencement.

We look forward to jointly shaping a programme that is academically defensible, accessible to first-time learners and capable of producing work that students can explain, demonstrate and carry into employment, higher study, innovation competitions or entrepreneurship.

Yours faithfully,

Aakash Chatake
Founder & Director
Chatake Innoworks Private Limited
For MindForgeAI

03 / INSTITUTIONAL PROGRAMME

Programme design and outcome model

Teach the work, require the evidence, assess the reasoning

Design principles

Principle	How it appears in delivery
Progressive difficulty	Each level assumes only the prior level's outcomes; beginners are not placed directly into advanced stacks.
Discipline-aware practice	BBA students emphasise decisions, operations and business value; BCA students emphasise implementation, testing and software quality; M.Sc. students emphasise scientific validity.
Evidence before claims	Every important claim points to a source, experiment, test, result, decision log or demonstration.
Human accountability	AI may assist research, drafting and coding, but students remain responsible for verification, attribution, privacy and explanation.
Project continuity	Workspace, diary, repository, report and deployment evolve together; documentation is not postponed to the final week.
Accessible tooling	Open-source or free-tier tools are preferred; paid services are optional and require institutional approval.

Common evidence chain

1 · Frame	2 · Research	3 · Build	4 · Verify	5 · Communicate
Problem, user, scope, constraints, success measures	Source log, assumptions, dataset provenance, alternatives	Notebook/code/workflow, version control, diary	Tests, metrics, validation, risk review, new-data trial	Report, demo/deployment, presentation, viva, reflection

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Graduate-facing outcomes

- Explain the problem and why the chosen solution is proportionate.
- Work in a clean, versioned and reviewable digital workspace.
- Use AI, data and automation tools responsibly within role and skill level.
- Test outputs and distinguish a demonstration from a production-ready system.
- Present evidence to technical and non-technical audiences.
- Reflect on limitations, ethics, privacy, accessibility and next steps.

International alignment The responsible-use layer is informed by UNESCO's AI competency domains for students and NIST's Govern-Map-Measure-Manage risk-management functions. These are reference frameworks, not accreditation claims.

04 / INSTITUTIONAL PROGRAMME

Level 1 · AI & Digital Work Foundations

BBA / BCA Year 1 · 4 weeks · beginner-safe, guided and evidence-led

Week / gate	Learning and studio focus	Required evidence
Week 1	Digital workspace, files and folders, browser research, source notes, AI literacy, prompt anatomy and safe use	Workspace screenshot, research log, prompt/output critique
Week 2	Structured problem solving, spreadsheets/data tables, simple charts, business/process or computational logic	Clean dataset/table, chart, written interpretation, logic flow
Week 3	BBA: customer/operations insight and communication. BCA: Python/notebook/web foundations and testing	Role-specific exercises and tested mini-build
Week 4	Team microproject, validation, presentation, reflection and responsible-use declaration	Artefact, mini-report, demo, individual reflection

Exit outcomes

- Organise a professional learning workspace and record sources.
- Use generative AI with verification, attribution and privacy awareness.
- Interpret a small dataset or automate a simple, well-defined task.
- Explain individual contribution and demonstrate a first portfolio artefact.

Delivery pattern

Recommended rhythm: two concept studios, two guided labs, one mentor review and one evidence/reflection block per week. Students begin with a short diagnostic; no coding background is assumed for BBA learners.

Assessment emphasis

Practical evidence and demonstration 60%; reasoning/reflection 25%; professional practice 15%.

05 / INSTITUTIONAL PROGRAMME

Level 2 · Applied AI, Data & Automation

BBA / BCA Year 2 · 6 weeks · role-aligned applied practice

Week / gate	Learning and studio focus	Required evidence
Week 1	Problem discovery, process map, user needs and data quality	Problem brief, process map, data dictionary
Week 2	BBA: dashboards and business analysis. BCA: Python, SQL, APIs and Git	Prepared data and analysis notebook/dashboard
Week 3	Automation, introductory prediction, baseline and error analysis	Prototype and baseline comparison
Week 4	Team build, integration, interface and documentation	Working increment, repository, draft guide
Week 5	User pilot, new-input testing and improvements	Test record, feedback, corrected build
Week 6	Packaging, report, demo, individual viva and handover	Final solution, report, repository, demonstration

Exit outcomes

- Translate a real process or information need into a bounded technical brief.
- Prepare and analyse data with transparent transformations.
- Build a small automation, dashboard or application with clear tests.
- Compare alternatives using evidence rather than tool popularity.

Delivery pattern

Teams of three to five work through a six-week sequence of guided labs and an applied project. BBA and BCA students may collaborate on the same case with distinct business-analysis and implementation responsibilities.

Assessment emphasis

Problem framing 15%; data/research quality 20%; solution and testing 35%; repository/report 15%; demo, viva and teamwork 15%.

06 / INSTITUTIONAL PROGRAMME

Level 3 · Industry Project Studio

BBA / BCA Year 3 · 9-week compact or 12-week extended capstone

Week / gate	Learning and studio focus	Required evidence
Gate 0	Readiness, team charter, originality check, problem selection, client/data permission and success criteria	Approved charter and proposal
Weeks 1-2	Discovery, domain study, stakeholder/user analysis, literature/market review and requirements	Research log, requirements, risk register
Weeks 3-4	Data/process preparation, architecture, UX/prototype, backlog and baseline	Design pack, data sheet, baseline/prototype
Weeks 5-7	Iterative build, integration, testing, weekly reviews and versioned evidence	Working increments, tests, diaries, review records
Weeks 8-9	Evaluation, deployment/demo packaging, report consolidation, presentation and viva	Release candidate, report, demo, defence
Weeks 10-12*	Extended hardening: user trial, automation, monitoring, performance, accessibility and publication-quality portfolio	Improved release, operational guide, final showcase

Exit outcomes

- Deliver a complete and explainable final-year project aligned to the learner's discipline.
- Maintain individual and group diaries, issue/risk logs and a traceable repository.
- Conduct testing with realistic new inputs and document limitations.
- Produce an institutional report, live or controlled demo, handover and viva defence.

Delivery pattern

The nine-week option contains the complete academic lifecycle. The twelve-week option adds hardening, field/user validation and a stronger public or competition-ready release. A weekly stage gate prevents late, unverifiable assembly.

Assessment emphasis

Proposal/research 15%; design and method 15%; implementation 25%; testing/results 15%; report/repository 15%; demonstration/viva 10%; professional practice 5%. *Extended weeks apply only to the twelve-week option.

07 / INSTITUTIONAL PROGRAMME

Applied ML Scientist Foundation

M.Sc. Computer Science Year 1 · 6 weeks · rigorous foundations

Week / gate	Learning and studio focus	Required evidence
Week 1	Researchable problem formulation, ML task identification, Python environment, Git and experiment questions	Research brief, baseline plan, environment record
Week 2	Dataset provenance, licensing, EDA, missingness, outliers, imbalance, leakage and data documentation	EDA notebook, dataset card, leakage audit
Week 3	Preprocessing pipelines, feature engineering, train/validation/test design and cross-validation choices	Reproducible pipeline and validation rationale
Week 4	Baselines and algorithm comparison; metric selection; error analysis; neural-network concepts and epochs where appropriate	Experiment table, learning curves, errors
Week 5	Model packaging, API/app deployment, Docker introduction, reproducibility and responsible-AI review	Container/app or controlled demo, model card
Week 6	New-data testing, findings, report, research poster/deck and technical viva	Final repository, report, deployment/demo, defence

Exit outcomes

- Formulate classification, regression, clustering, NLP or vision tasks correctly.
- Build leakage-safe preprocessing and defensible validation pipelines.
- Compare baselines and models using task-appropriate metrics and error analysis.
- Package and defend a reproducible applied-ML prototype.

Delivery pattern

The six-week track develops the foundation and habits required for later ML-scientist work; it does not claim that six weeks alone confers professional scientist status. Labs use datasets proportionate to available compute.

Assessment emphasis

Research/problem 10%; data/EDA 15%; pipeline/features 15%; modelling/experiments 25%; testing/responsibility 15%; deployment/reproducibility 10%; report/viva 10%.

08 / INSTITUTIONAL PROGRAMME

ML Scientist Residency

M.Sc. Computer Science Year 2 · 12 weeks · research, systems and MLOps

Week / gate	Learning and studio focus	Required evidence
Weeks 1-2	Research question, literature mapping, novelty boundary, experimental protocol, environment and data governance	Protocol, bibliography, risk/data plan
Weeks 3-4	Advanced EDA, feature/representation engineering, classical baselines and robust validation	Reproducible baselines and ablations
Weeks 5-6	Advanced ML plus one specialisation: NLP, computer vision, time series, recommender or multimodal systems	Tracked experiments and model comparison
Weeks 7-8	TensorFlow/Keras or suitable framework, tuning, early stopping, error analysis, explainability and responsible AI	Learning curves, failure taxonomy, model card
Weeks 9-10	API, Docker, CI checks, model/data versioning, cloud deployment pattern, logging and monitoring	Release candidate and operations runbook
Weeks 11-12	Real/new-data evaluation, limitations, technical report/paper, poster, reproducibility audit and viva	Final system, report/paper, presentation, defence

Exit outcomes

- Design a reproducible experimental study with explicit assumptions and controls.
- Build and compare advanced models without losing sight of strong baselines.
- Deploy a governed inference workflow and define monitoring, rollback and retraining triggers.
- Communicate negative results, limitations, risks and scientific contribution honestly.

Delivery pattern

Each student owns an identifiable experimental contribution even when working in a team. Research supervision, compute feasibility and data permissions are confirmed before training-intensive work begins.

Assessment emphasis

Research design 15%; data/reproducibility 15%; models/experiments 25%; evaluation/responsibility 15%; system/MLOps 15%; report/paper 10%; defence/professional practice 5%.

09 / INSTITUTIONAL PROGRAMME

Technology and project practice

Tools are selected by learning outcome, not by novelty

Layer	Preferred learning tools	Use and boundary
Workspace	VS Code, Jupyter, Colab, terminal / PowerShell	Files, environments, notebooks, scripts, repeatable commands and clean handover
Version control	Git, GitHub or institution-approved equivalent	Branches, issues, commits, reviews, release tags; no credentials in repositories
Data	Excel/Sheets, CSV, SQL, pandas, NumPy	Cleaning, validation, transformations, dictionaries and reproducible preparation
Visualisation	Matplotlib, Seaborn, Plotly, Power BI where available	Exploratory and decision-facing visuals with correct scales and captions
ML / DL	scikit-learn; TensorFlow/Keras or PyTorch where justified	Baselines first; deep learning only when data, compute and task justify it
NLP / Vision	spaCy/Transformers; OpenCV and suitable pretrained models	Task-specific experiments, bias/error review and lawful datasets
Automation	Python scripts, approved workflow/no-code tools, APIs	Repetitive work, reporting and integration with explicit human approval points
Robotics	ROS concepts, Gazebo/simulation, sensors and control foundations	Simulation-first practice; physical systems only under supervised safety procedures
Deployment	Streamlit/Gradio, FastAPI/Flask, Docker, approved cloud/free tier	Controlled demonstrations, health checks, secrets management and cost limits
Operations	Tests, CI checks, logging, model/data cards, monitoring plan	Quality gate before release; rollback and ownership recorded

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Repository and workspace standard

A clean working environment from the first day

Area	Minimum contents
00_project_management	Charter, team roles, backlog, meeting notes, decisions, risks
01_research	Source register, literature/market notes, assumptions, licence and attribution records
02_data	README and data dictionary; raw sensitive data excluded or access-controlled
03_notebooks	EDA, experiments and clearly named exploratory work
04_src	Reusable source code, configuration examples and tests
05_models	Model metadata/checksums and download instructions; avoid oversized uncontrolled binaries
06_app_deployment	Application/API, container files, environment guide, health checks and rollback note
07_reports	Abstract, chapter drafts, figures, final report, presentation/poster
08_diaries	Individual daily diaries and shared group diary
09_evidence	Screenshots, test results, demo links and release evidence

Daily evidence loop

Plan	Work	Record	Review
Choose a bounded task and success check	Build or analyse in the project workspace	Save code, sources, tests and diary entry	Commit, demonstrate and receive feedback

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Individual and group records remain distinct

Each learner records their own contribution, time, learning and blockers. The group diary records shared progress, decisions, integration and the next collective action. A group submission does not replace individual evidence.

Parallel report preparation

Keep the abstract, literature review, methodology, results and references beside the technical workspace. Update the report during every sprint; do not reconstruct the project history only at the end.

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Delivery, governance and quality assurance

Clear authority, review gates and recoverable evidence

Role	Core responsibility
College Principal / authorised authority	Institutional approval, policy alignment and escalation authority
College programme coordinator	Cohort nomination, schedule, attendance coordination, faculty communication and issue escalation
College faculty mentor(s)	Academic alignment, discipline review, local supervision and institutional assessment participation
MindForgeAI programme lead	Curriculum, trainer allocation, quality controls, reviews, final records and programme reporting
Industry mentor / reviewer	Problem and design review, technical/business feedback, stage-gate decisions and viva participation
Student team lead	Task clarity, meeting rhythm, group diary, risk escalation and evidence completeness
Individual student	Own work, attendance, diary, source attribution, testing, contribution evidence and academic integrity

Quality gates

Gate	Approval question	Typical evidence
G0 · Readiness	Are learners, access, tools, schedule and support ready?	Roster, diagnostic, consent/policy, environment check
G1 · Problem	Is the problem real, bounded, ethical and measurable?	Problem brief, stakeholders, success criteria, risk register
G2 · Design	Is the proposed method proportionate and testable?	Architecture/process map, data plan, baseline, backlog
G3 · Build	Does the work run and is authorship/evidence traceable?	Repository, increments, tests, diaries, mentor review
G4 · Release	Is the demonstration safe, documented and recoverable?	Release checklist, deployment/demo, model/system card, rollback
G5 · Defence	Can students explain choices, evidence, limitations and contribution?	Report, presentation, viva and reflection

Communication and escalation

- A short weekly dashboard records attendance, completed gates, risks, dependencies and next actions.
- Safety, privacy, harassment, plagiarism, credential exposure or unauthorised publication is escalated immediately; schedule concerns are raised within one working day.
- Scope changes are documented with reason, impact and approver. No silent replacement of the approved problem or dataset.
- Mentor feedback is advisory until recorded as a gate decision; students retain responsibility for their submitted work.

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Assessment, completion and learner records

A common 100-mark model with level-specific depth

The table below is a common domain framework. The pathway-specific weightings on the course pages define the proposed track rubric; the College will approve one final rubric for each cohort before launch.

Assessment domain	Indicative marks	Evidence
Problem framing and research	15	Problem statement, stakeholder/user need, sources, constraints, success criteria
Data / process / methodology	15	Data dictionary or process evidence, preparation, design rationale, reproducibility
Implementation / analysis	25	Working artefact, notebook/code/workflow, contribution and version history
Testing, evaluation and responsibility	15	Tests/metrics, error analysis, new-input trial, privacy/ethics review
Repository, report and evidence quality	15	Readable workspace, diary, documentation, references and release record
Demonstration, viva and communication	10	Live/controlled demonstration, presentation and individual defence
Professional practice	5	Attendance, deadlines, teamwork, conduct and response to review

Completion descriptors

Result	Minimum interpretation
Distinction evidence	Consistent independent reasoning, verified solution, strong evaluation, clear limitations and excellent handover.
Successful completion	Meets required gates, submits authentic evidence, produces a working or defensible outcome and passes viva.
Completion with correction	Core participation is verified but specified evidence, quality or integrity issues must be corrected by deadline.
Participation only / incomplete	Attendance or activity occurred, but one or more essential gates, evidence sets or viva requirements were not met.

Record set

- Approved roster, baseline diagnostic and attendance record.
- Individual diary, group diary, mentor/gate reviews and contribution evidence.
- Repository or controlled workspace, report, presentation and demonstration record.
- Assessment rubric, score sheet, correction history and completion decision.
- Consent/publication status for any student profile, public project page, image, testimonial or external showcase.

Certificate rule Certificates are issued only after the required completion decision and records are verified. Wording, signatures, serialisation and co-branding must be approved before programme launch.

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Responsible AI, data protection and academic integrity

Useful systems must also be lawful, safe and explainable

Mandatory learner practice

- Do not enter personal, confidential, proprietary or credential information into public AI tools, repositories or demonstrations.
- Use only datasets and media with a documented source, permission or licence appropriate to the project.
- Record material AI assistance in an AI-use log: tool, date, purpose, input category, verification performed and final student contribution.
- Verify generated facts, code, calculations and citations. Fabricated references or unverified outputs are academic-integrity failures.
- Test for harmful errors, unfair performance differences, unsafe recommendations and accessibility barriers appropriate to the use case.
- Keep human approval in any consequential business, educational, health, safety, finance or public-service decision workflow.
- Remove secrets and personal identifiers before submission; use environment variables and approved secret stores for deployment.
- Document limitations, intended users, prohibited uses, monitoring needs and retirement/rollback conditions.

Project risk classification

Class	Examples	Control
Low	Public/open data learning prototype; synthetic workflow; local demo	Standard review and attribution
Moderate	Institutional operations data, external APIs, public deployment, user testing	Written data/access approval, privacy review, controlled release
High / restricted	Biometrics, health decisions, financial eligibility, surveillance, safety control, vulnerable populations	Do not proceed as an ordinary student project; require written institutional and expert approval or redesign

Framework reference

Programme reviews use the NIST AI Risk Management Framework functions-Govern, Map, Measure and Manage-as a practical checklist, and UNESCO’s human-centred, ethical, technique/application and system-design competency dimensions as a learner-development reference. Formal compliance remains the responsibility of the relevant institution and system owner.

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Indicative project and specialisation catalogue

Final selections depend on scope, data, safety, mentor capacity and learner readiness

BBA-aligned applied projects

Theme	Possible output
Customer segmentation and engagement	Ethical segmentation analysis, dashboard and campaign decision guide
Inventory and demand planning	Forecast/baseline comparison, reorder dashboard and exception workflow
Service quality and feedback intelligence	Survey/text analysis, action prioritisation and management brief
Sales and operations performance	KPI model, anomaly explanation and role-based reporting dashboard
Digital marketing evidence studio	Channel analysis, experiment plan, content workflow and responsible-AI controls
Small-business process automation	Mapped process, approved automation, exception handling and ROI estimate

BCA-aligned development projects

Theme	Possible output
Academic / service workflow portal	Authenticated prototype, data model, tests and deployment guide
Document and knowledge assistant	Retrieval prototype using approved documents, citation checks and safety rules
Operations dashboard and API	Data pipeline, backend/API, dashboard, validation and logs
Computer-vision inspection prototype	Dataset card, baseline, error review and controlled application
IoT / smart monitoring simulator	Sensor simulator, anomaly logic, dashboard and notification workflow
Automation and integration toolkit	CLI/web utility, API integration, tests and user documentation

M.Sc. specialisation directions

Direction	Research emphasis
NLP and document intelligence	Retrieval, classification, information extraction, evaluation and hallucination/error controls
Computer vision	Detection/classification/segmentation, augmentation, transfer learning and robustness
Forecasting and anomaly detection	Temporal validation, drift, uncertainty, operational thresholds and monitoring
Responsible recommender systems	Ranking metrics, cold start, feedback effects, bias and user control
Applied MLOps	Experiment/model/data versioning, CI, packaging, monitoring and rollback
Robotics and intelligent automation	Simulation, perception/planning integration, safety limits and reproducible trials

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Institutional implementation plan

Approve once, prepare carefully, review before scaling

Stage	Joint action	Exit evidence
1 · Discovery	Confirm departments, academic calendar, learner profile, outcomes, constraints and decision-makers	Signed meeting record / needs note
2 · Programme order	Select levels, duration, delivery mode, cohort size, project option, assessment and commercial terms	Approved proposal/work order/MoU
3 · Readiness	Nominate learners and mentors; complete baseline, infrastructure, accounts, policies and schedule	G0 readiness approval
4 · Delivery	Run studios/labs, attendance, diaries, weekly mentor reviews, interventions and evidence checks	Weekly dashboard and gate records
5 · Finalisation	Complete project/report/deployment or demo, assessment, viva and corrections	G5 completion decision
6 · Closeout	Issue verified records/certificates, collect feedback, publish only with consent, review programme quality	Closeout report and improvement plan

Readiness checklist

- Approved cohort and learner contact/identity process; accessibility and support needs identified.
- Named College coordinator, faculty mentors, MindForgeAI lead and escalation channel.
- Computer/internet availability, software-installation authority, account and lab access confirmed.
- Approved calendar, attendance rule, working hours, assessment dates and correction window.
- Data/project permissions, confidentiality, photography/publication and IP position recorded.
- Commercial terms, taxes, payment milestones, cancellation/rescheduling and certificate wording approved.
- Fallback defined for connectivity, cloud quotas, tool outages and learners without suitable personal devices.

Pilot recommendation

A pilot should be small enough for close observation and representative enough to test the model. The partners should select one level, run the baseline and readiness gate, review week-one evidence, and hold a formal midpoint quality review. Expansion to additional cohorts should follow documented pilot findings rather than calendar pressure.

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Institutional terms to be finalised

This proposal defines the academic system; commercial and legal terms require joint approval

Decision area	Items to record before launch
Scope	Programme level(s), departments, duration, hours, cohort size, learning outcomes, deliverables and exclusions
Schedule and mode	Start/end dates, timetable, venue, online/hybrid arrangements, holidays, make-up policy and project-review dates
Financial	Fee per learner or cohort, applicable tax, payment milestones, refunds/cancellation, travel, consumables, cloud/tool costs
Academic	Eligibility, attendance, assessment ownership, marks integration, viva panel, corrections, certificate conditions
People	Named coordinators, mentors, trainer allocation, substitution, support and escalation response
Data and IP	Data controller/owner, permitted processing, storage/retention, confidentiality, background IP, project IP and publication
Technology	Devices, network, software, account ownership, licences, cloud limits, security and backup
Publicity	Logo use, photographs, testimonials, student profiles, project hosting, social media and consent withdrawal
Risk and conduct	Safety, anti-harassment, grievance, disciplinary pathway, incident reporting and limitation of authority
Closeout	Records, reporting, certificates, handover, portfolio release, archival and post-programme support

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Commercial note No price is stated in this draft. A transparent commercial annexure should be prepared only after cohort size, delivery mode, trainer load, infrastructure and project support are agreed.

Suggested MoU / work-order annexures

1. Approved programme specification and cohort sheet.
2. Calendar, contact matrix and escalation route.
3. Infrastructure and account responsibility matrix.
4. Assessment, attendance, correction and certificate policy.
5. Data, privacy, confidentiality, intellectual-property and publication terms.
6. Commercial schedule and change-control procedure.

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Sample weekly operating pattern

To be adapted to the College timetable and approved contact hours

Block	Purpose	Typical learner activity	Evidence
Concept studio	Build correct mental model	Guided explanation, examples, questioning and short knowledge check	Notes / quiz / concept map
Guided lab	Learn the tool safely	Follow a verified procedure, reproduce result, deliberately test errors	Executed work and troubleshooting log
Application lab	Transfer skill to a new case	Choose method, build, compare alternatives and document reasoning	Notebook/code/workflow and decision record
Project studio	Advance the shared outcome	Backlog work, peer review, integration, testing and user/mentor feedback	Commit, task update, group diary and test evidence
Review clinic	Correct misconceptions and unblock	Individual/team review against rubric and quality gate	Feedback and correction action
Reflection / communication	Make learning explainable	Diary, short report, presentation, demo or viva practice	Individual reflection and evidence index

Illustrative workload-not a binding timetable

Programme	Facilitated contact	Guided / independent practice	Review pattern
Level 1 / Level 2	Indicatively 12-20 hours per week	Indicatively 6-12 hours per week	Weekly mentor check and final demo
Level 3 project studio	Indicatively 8-16 hours per week	Indicatively 12-24 hours per week	Weekly gate; midpoint and final review
M.Sc. Year 1	Indicatively 12-18 hours per week	Indicatively 15-25 hours per week	Experiment review each week
M.Sc. Year 2 residency	Indicatively 10-16 hours per week	Indicatively 20-30 hours per week	Research/system gate each week

Final contact hours must be proportionate to the College calendar, learner readiness and project complexity. Independent hours are not supervised employment hours and should be planned with academic workload in mind.

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Annexure A · Minimum deliverables by level

Deliverable	L1	L2	L3	M.Sc. Y1	M.Sc. Y2
Professional workspace + source log	Required	Required	Required	Required	Required
Individual learning diary	Required	Required	Required	Required	Required
Group diary / project charter	Mini	Required	Required	Required	Required
Version-controlled repository	Guided	Required	Required	Required	Required
Dataset/process documentation	Basic	Required	Required	Required	Research-grade
Testing/evaluation evidence	Basic	Required	Required	Required	Extensive
Deployment / controlled demo	Optional	Preferred	Required	Required	Required
Formal report	Mini	Mini	Full	Technical	Research/system
Presentation and viva	Demo	Required	Required	Required	Required
Model/system card + runbook	-	As applicable	As applicable	Required	Required

Annexure B · Suggested individual viva prompts

1. What real problem did your team solve, for whom, and what did you deliberately leave outside scope?

2. Which evidence changed your initial understanding or design?

3. What part did you personally build, analyse, test or document? Show the trace.

4. Why did you choose this method or tool over at least one alternative?

5. What failed, what did you learn from the failure, and what did you change?

6. How did you test the work with realistic new inputs or users?

7. What privacy, bias, safety, accessibility or misuse risk matters most here?

8. If this system were used for six months, what would you monitor and when would you stop or roll it back?

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Annexure C · Reference and source register

Internal programme foundations

- MindForgeAI AI/ML Internship 1.0 learning handout and twelve-week teaching packs.
- 100 Days of Real Engineering / Internship 2.0 programme booklet.
- MindForgeAI Week 7 real-world machine-learning evaluation and Week 8 project-engineering practice resources.
- BBA/BCA AI-ML induction presentation developed following the Sangameshwar College induction engagement.

External reference frameworks and institutional information

Source	Use in this proposal	URL
Sangameshwar College official website	Official institutional name, autonomous status and programme context	https://sangameshwarcollege.ac.in/
UNESCO AI Competency Framework for Students	Human-centred, ethical and competency-oriented learner design reference	https://www.unesco.org/en/articles/ai-competency-framework-students
NIST AI Risk Management Framework	Responsible-AI governance and risk review reference	https://www.nist.gov/itl/ai-risk-management-framework
NIST AI RMF Playbook	Voluntary implementation actions across Govern, Map, Measure and Manage	https://airc.nist.gov/airmf-resources/playbook/

CHATAKE INNOWORKS

Version control

Version	Date	Status	Purpose
1.3	9 September 2026	Institutional print edition	Justified text, letter signature space, draft MoU, evidence and QR register

Document control note

This proposal is a planning document. It becomes operational only after the parties approve the applicable scope, responsibilities, schedule, commercial terms and annexures in writing. Curriculum may be adapted to academic calendar, learner baseline, infrastructure and safe project availability without weakening the evidence and quality gates.

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Draft MoU format - purpose and responsibilities

Working draft - to be reviewed and approved by both institutions

This proposed Memorandum of Understanding (MoU) format records the academic and operational understanding between Sangameshwar College, Solapur (Autonomous), hereafter “the College”, and Chatake Innoworks Private Limited, acting through MindForgeAI, hereafter “the Industry Partner”. It is a discussion draft and should be vetted by the authorised institutional and legal representatives before signature.

1. Purpose

The parties intend to collaborate on approved industry-training, internship and project-education programmes for BBA, BCA and M.Sc. Computer Science learners. Each approved cohort will connect instruction with practical work, assessment, documented evidence and a final review.

2. Programme schedule and cohort annexure

Item	To be recorded before commencement
Programme / level	BBA, BCA or M.Sc. CS; year; approved pathway and learning outcomes
Cohort	Number of learners, eligibility, nominated roster and accessibility/support needs
Period	Start date, end date, duration, approved contact hours and review dates
Mode and venue	Campus, online, hybrid or project studio; rooms/labs and authorised access
Nodal officers	College Programme Coordinator, faculty mentor(s), MindForgeAI lead and escalation contacts

3. Responsibilities of the College

- Nominate eligible learners and responsible faculty contacts; communicate the approved calendar, attendance rules and academic requirements.
- Provide agreed classroom/laboratory access, local supervision, student communication and institution-owned infrastructure identified in the cohort annexure.
- Support timely approvals for datasets, project topics, field/user interaction, photography, publication, competitions and assessment.

4. Responsibilities of the Industry Partner

- Deliver the approved curriculum, practical guidance, project reviews, learning resources and evidence templates through appropriately assigned mentors.
- Maintain proportionate progress, review and completion records; communicate material risks, delays or scope changes to the College coordinator.
- Issue only those letters or certificates that are authorised by the agreed completion decision and wording.

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Draft MoU format - governance and legal terms

Working draft - clauses to be finalised before signature

5. Learner conduct, attendance and assessment

Learners remain responsible for attendance, safe conduct, academic integrity, source attribution, credential security and their submitted work. The approved cohort annexure will state attendance thresholds, assessment rubric, correction opportunities, viva arrangements and the evidence required for completion.

6. Data, confidentiality, intellectual property and publication

No personal, confidential, proprietary or restricted data will be used without written permission and an approved handling plan. Ownership and permitted use of pre-existing material, student-created work, jointly developed material, repositories, public project pages and competition submissions will be recorded before work begins. Public use of names, photographs, testimonials or student profiles requires the applicable consent and institutional approval.

7. Infrastructure, accounts and safety

The cohort annexure will identify responsibility for devices, software, cloud accounts/budgets, internet, datasets and any optional hardware. Learners will follow laboratory, cybersecurity and project-safety rules. A demonstration must not be represented as a production-certified, clinical, financial, public-safety or physical-control system without the required validation and authority.

8. Commercial terms

Fees, applicable taxes, payment schedule, approved expenses, refunds, cancellation/rescheduling, travel and any additional project support will be stated only in a signed commercial annexure or work order. This proposal does not itself establish a price or payment obligation.

9. Term, review, amendment and termination

The MoU will state its effective date and term. Either party may request a documented review. Amendments require written approval by authorised representatives. Termination notice, treatment of active learners, records, confidential material and financial settlement will be defined before signature. Immediate suspension may be used for serious safety, privacy, misconduct or legal concerns.

10. No employment or guaranteed outcome

Participation does not create employment, agency or a placement guarantee. Academic credit equivalence, competition selection, professional status and third-party certification are not implied unless separately authorised in writing.

11. Dispute handling and applicable law

The parties will first attempt resolution through their nominated officers and authorised heads. Governing law, jurisdiction, notices, force-majeure treatment and any arbitration or mediation mechanism should be inserted after institutional/legal review.

12. Entire understanding and order of precedence

The signed MoU and its approved annexures constitute the recorded understanding for this collaboration. If an annexure conflicts with the main MoU, the parties should state which provision prevails. Verbal discussions and this unsigned proposal do not by themselves amend the signed terms.

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Draft MoU format - execution and signatures

Working draft - complete only after institutional and legal review

Execution schedule

Record	Approved detail
MoU effective date	_____
Initial term	From _____ to _____
Review / renewal date	_____
Official notice addresses	College: _____ Industry Partner: _____
Approved annexures attached	A / B / C / D / E / F (circle or list as applicable)

Annexures forming part of the signed understanding

Annexure	Document to approve
A	Programme specification, pathway, outcomes and cohort roster
B	Calendar, contact matrix, venue and escalation route
C	Infrastructure, software, account and support responsibility matrix
D	Attendance, assessment, correction, viva and certificate policy
E	Data, privacy, confidentiality, IP, publicity and consent terms
F	Commercial schedule, taxes, change control and cancellation terms

Signatures of authorised representatives

For Sangameshwar College, Solapur (Autonomous)	For Chatake Innoworks Private Limited
Signature and institutional seal	Signature and company seal
Name: _____ Designation: _____ Date:	Name: _____ Designation: _____ Date:
Witness 1: _____ Witness 2: _____	Witness 1: _____ Witness 2: _____

This template is not legal advice and is not effective until completed, reviewed and signed by authorised representatives of both parties.

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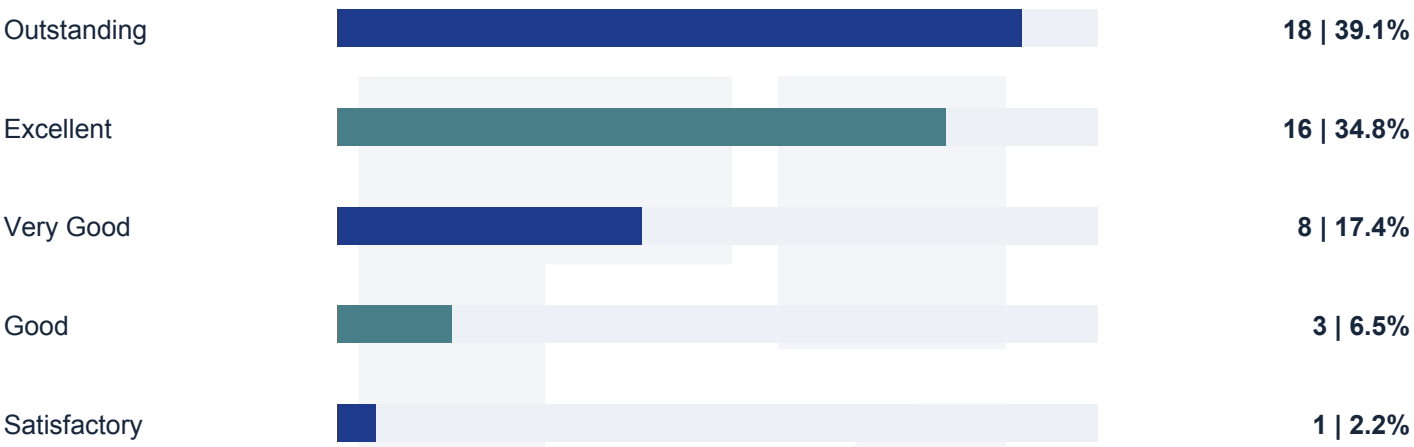
Prior cohort - graphical results

MindForgeAI Internship 1.0 | evaluation snapshot dated 7 September 2026

Learners	Project systems	Mean / 100	Median / 100
46	13	87.4	89.0

Grade distribution - all 46 assessed participants



34 of 46 learners (73.9%) achieved Outstanding or Excellent. Scores ranged from 59 to 100. The evaluation register records a completed programme decision for all 46 learners.

What was assessed

Learning and engineering components	Maximum marks
Programming + data analytics + machine learning + advanced AI	45
Industry diary + individual project + group project + final defence	55

Interpretation and evidence boundary

These are descriptive internal cohort results, not an external certification, placement rate or promise of identical outcomes. The register contains 47 project affiliations across 13 systems because one learner has a dual-project record. Completion decisions are distinct from certificate-release eligibility.

Source: MindForgeAI Internship 1.0 Result & Awards Analysis, 7 September 2026, pp. 1-2. Aggregate-only institutional review; no student marks or award recipients reproduced. Public result release remains scheduled for 10 September 2026, 10:00 IST.

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Student project studio - evidence portfolio

From notebooks to a public engineering record

The prior cohort has a 13-system project catalogue. The portfolio gives the College a route to inspect project-specific descriptions, methods and available evidence rather than relying only on a completion certificate.

Project system	Applied field
Apollo AgriIntel / Apollo PashuSense	Agriculture and livestock intelligence
Aethera / Argus	AI application and intelligent monitoring studies
GridMind / CardioAth	Energy forecasting and health intelligence
LearnSphere AI / FinGuard AI	Learning support and financial-risk studies
FactoryFlow AI / DocuMind AI	Industrial operations and document intelligence
InfraSense AI / SafeCity AI / ConstructVision AI	Infrastructure, public-safety and built-environment studies

Explore all 13 project records

Project index: open a system, inspect its scope and follow the available implementation evidence.

https://mindforgeai.co.in/projects

Suggested evidence walk-through during the College meeting

Check	Ask the learner to demonstrate
Problem and data	Who uses it? What source and permission support the data?
Implementation	Open the actual notebook/repository and explain one personal contribution.
Testing	Show an unseen input, a failure case and a recorded correction.
Handover	Open the report, limitations, setup guide and demonstration.

Public project pages document learning work. A listed project is not automatically a production-certified service, clinically validated product or unrestricted live backend. Repository/demo access is checked individually.

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Learning environment and delivery infrastructure

A physical learning studio connected to digital project practice

Studio exchange: D Y Patil, Mumbai students and the Apollo team discussing project thinking in Solapur. Source: published institutional studio album.

Layer	Existing evidence / proposed use
Physical studio	Learning bays, whiteboard discussions and laptop-based project reviews. Final batch capacity and device allocation require a readiness check.
Student and group workspace	Student records, diaries, submissions and a separate shared-project workspace for reports, tasks, notes and evidence.
Public portfolio	Project catalogue and technical profile network provide a controlled route to showcase approved work.
Delivery resources	Internship 1.0 materials, Week 7 evaluation, Week 8 project practice and the 100-day engineering pathway inform this proposal.
Infrastructure boundary	College/company responsibilities for devices, internet, cloud budgets, datasets and optional robotics kits are agreed before launch. No dedicated GPU or robotics inventory is assumed.

See the studio and learning environment

Public photographs, programme journey and workspace entry points. Student and administrative records are not part of this public evidence pack.

https://internship.chatakeinnoworks.com/

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Innovation record - DIPEX 2026

DIPEX 2026 | GFIS first-prize recognition

A demonstrated innovation pathway

The institutional record identifies GFIS as a first-prize project at DIPEX 2026. The award photograph shows the four-student team receiving the winner recognition.

This is evidence of the wider Chatake Innoworks mentoring and innovation ecosystem. It is not presented as an award won by the entire Internship 1.0 cohort.

The same discipline informs the proposed studio: explain the problem, build a defensible system and present the evidence.

From training to innovation - without skipping the evidence

01 Learn	02 Build	03 Validate	04 Present
Guided concepts, tools and safe practice	A bounded project with traceable contribution	Tests, review, limitations and corrections	Demo, report, viva and an eligible competition entry

GFIS project and research ecosystem

Public GFIS platform. Award context and photograph are retained in the MindForgeAI institutional website.

https://gfis.energy/

Recognition is historical evidence, not a guaranteed competition outcome. Competition participation depends on current rules, institutional approval and project readiness.

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Current SIH project teams and progression

Two current work packages, with clearly stated maturity

The following examples show how mentored work can continue beyond a classroom project. They are separate from the proposed Sangameshwar cohorts and do not establish SIH finalist or national-award status.

A. Apollo AgriVerse - Intelligent Soil

A six-member RAIT team under D Y Patil University is developing an explainable irrigation decision workbench. Priyan Khandelwal leads product integration; GreenWorks/Apollo provides industry direction and Dr. Dipti Jadhav provides internal academic guidance.

Status on the public project record: internal selection cleared; SIH-stage MVP preparation continues. The prototype models root-zone water scenarios, including hydrogel/biochar comparisons. Controlled field validation remains a next stage.

Apollo SIH team, MVP and presentation

Inspect the six-member team, bounded prototype, stage-by-stage progress and public demonstration.

https://apollocontinuum.com/sih/

B. GFIS EcoTwin - evidence-led energy simulation

A six-member Apollo-origin student team led by Vijayalaxmi is preparing a GFIS EcoTwin work package, with Sunaina supporting the opening presentation. Akash provides industry mentoring and Prof. N. K. Mane provides college guidance.

The package includes a simulation/replay MVP, roles, a work plan and presentation resources. It builds on company/mentor research foundations; it is not claimed as wholly new student research or physical plant control. Institutional eligibility and final SIH allocation remain subject to confirmation.

GFIS EcoTwin SIH work package

Open the public demonstration and preparation materials. This is a preparation record, not proof of SIH selection.

https://gfis.energy/sih/

Relevance for Sangameshwar

Final-year BBA/BCA and M.Sc. teams can learn the same progression: bounded scope, assigned roles, reproducible evidence, academic review and a presentation they can defend. Any competition extension will be agreed separately.

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College decision and QR reference desk

Recommended next step: agree one pilot cohort

Confirm participating courses/years and approximate learner numbers; nominate the College coordinator and faculty mentors; select campus, online or hybrid delivery; choose the final-year 9- or 12-week route; and sign off the readiness, assessment and commercial annexures.

Quick-access evidence register

Programme and studio

Published learning environment and programme navigation.

https://internship.chatakeinnoworks.com/

Project portfolio

All 13 previous-cohort project systems.

https://mindforgeai.co.in/projects

Technical profile network

Public technical profiles and project presentation ecosystem.

https://network.mindforgeai.co.in/

Apollo SIH

Intelligent Soil team and prototype progress.

https://apollocontinuum.com/sih/

GFIS SIH

EcoTwin preparation and public simulation package.

https://gfis.energy/sih/

QR codes point only to public pages, not private logins, unpublished marks or protected research documents. Links checked on 9 September 2026; content and availability may evolve.