

Young Applied AI Leaders Fellowship

Grades 8–12 | 28-Hour Intensive Program

From AI Consumers to AI Creators: Master AI Fundamentals and Build Real-world Agentic AI Automations.



DURATION

20 Days Summer Fellowship
Multiple Cohorts available (Details on Website)

28-Hour Program



FORMAT

1–2 Hours Daily Live Online Sessions with 80% Practical Work

Teaching Assistants for student doubt clarifications



OUTCOME

10 Real-world Projects
Fellowship Certificate



ENROLLMENT

₹7,500 Fellowship Fee

No Upfront Payment — Students & parents can attend the first 5 hours at absolutely no cost. Experience the value before you commit.

Register Now at: www.proailerner.com/fellowship.html

PROGRAM OVERVIEW

Building The Leaders Of Tomorrow

The world is being reshaped by AI — and the students who will lead this transformation are those who learn to build it, not just use it. The Young Applied AI Leaders Fellowship is an intensive, 28-hour program that instills First-principles thinking in students and gives them direct, hands-on exposure to Agentic AI technologies powering companies like Microsoft, Amazon, and Google.

Led by industry veterans with decades of technology leadership experience, this fellowship puts students in the driver's seat — building autonomous AI systems, enterprise applications, and real-world solutions from the ground up.

Why This Fellowship Is Critical For Students In the AI Era

- **AI is Redefining Every Career Path — Early Advantage is Critical:** Students work on genuine industry problems across Finance, Healthcare, Marketing, Supply Chain, and IT — the same challenges that professionals solve every day at the world's leading companies.
- **Build, Don't Just Learn:** With 80% of the program being hands-on, students spend more time building than listening. Every session ends with something real, working, and owned by the student.

A Portfolio of 10 Real-World Agentic AI Automation Projects

Each student builds and owns:

10 Agentic AI Automation Projects: Live-built autonomous AI "workers" across Finance, HR, Marketing, Supply Chain, and IT domains.

- **First-Principles Thinking & Problem-Solving Ability:** The fellowship cultivates a Builder's mindset — students learn to identify real problems, design AI-driven solutions, and bring them to life, developing the confidence and skills to lead in any field they choose.
- **Industry Mentorship:** Students learn directly from practitioners who have built and deployed AI systems at scale — bringing the real world into the classroom.
- **Competitive Edge Over Peers Globally:** With a portfolio of real AI systems and enterprise-grade applications, students stand out in university applications and future opportunities, backed by demonstrable skills rather than theoretical knowledge.

PROGRAM AGENDA

Program Format

- **20-Day Summer Fellowship:** 1–2 hours of daily interactive classes per day designed to fit into the schedule.
- **Session recordings and Notes:** Full session recordings and comprehensive notes are shared after every class, ensuring students can review material or catch up if they miss a live session.
- **Dedicated School Support:** A Teaching Assistant (TA) is allocated to every school to provide personalized doubt clarification for all students.
- **Total Fees:** ₹7,500 per student.

The "First 5 Hours" Discovery Phase — 5 Hours Completely Free, No Upfront Payment

Students and parents can attend the first 5 hours of the program at absolutely no cost. Payment of ₹7,500 is made only after completing this initial phase, if they choose to continue. Experience the Fellowship's impact firsthand before formalizing your commitment.

The 28-Hour Master Curriculum

Focus Area	Duration
Phase 1 — Foundations of Intelligence AI Evolution, LLM Architecture & the 2025 AI Landscape	4 Hours
Phase 2 — Context Engineering Fundamentals, Agentic AI Frameworks & n8n Environment Setup RAG, Semantic Grounding, Memory usage, Industry Use-Cases, APIs, Webhooks & n8n Platform Mastery	3 Hours
Phase 3 — Build 10 Real-World Agentic AI Automation Projects Designing and Deploying Autonomous AI Workflows across Finance, HR, Marketing, Supply Chain & IT	20 Hours
Phase 4 — AGI & Future of AI The Path to AGI, Shaping the Future of Intelligence and Ethical Decision-making	1 Hour

PHASE 1 (4 HOURS): FOUNDATIONS OF INTELLIGENCE

1.1 – Evolution of AI: From Rule-Based Systems to Transformers

- Timeline of AI: From rule-based systems of the 1940s to Neural Networks and Transformers
- Key milestones: Expert Systems, CNNs, RNNs, and the Transformer revolution

1.2 – Machine Learning & Deep Learning Fundamentals

- Machine Learning: Supervised, Unsupervised, and Reinforcement Learning
- Deep Learning: Neural Networks, Layers, and Activation Functions

1.3 – LLM "Under the Hood": Tokens, Embeddings & Architecture Deep-Dive

- Understanding Tokens, Embeddings, Vector Representations, the Transformer Architecture, Self-attention, and how models "understand" human intent
- Training, fine-tuning, RAG, and advanced prompting concepts

1.4 – Current AI Landscape

- Comparing leading LLMs across parameter size, context window, performance, cost and use-cases
- Open-source (Mistral, Llama) vs. Closed-source (OpenAI, Anthropic) ecosystems

PHASE 2 (3 HOURS): CONTEXT ENGINEERING, AGENTIC AI FRAMEWORKS & n8n ENVIRONMENT SETUP

2.1 – Context Engineering Fundamentals

- Context design: inputs, instructions, memory, and grounding for reliable AI outputs
- RAG, semantic grounding, and structured prompting for accuracy and reduced hallucinations

2.2 – The Rise of Agents: The Agentic Formula

- Agentic Formula: LLM + Tools + Reasoning + Action; how agents differ from chatbots
- Multi-step reasoning, planning, and execution in autonomous AI systems

2.3 – Industry Use-Cases: AI Disrupting the Real World

- AI Agents across Healthcare, Banking, Insurance, E-commerce, Software, and Marketing
- Case studies from Amazon, Microsoft, Bank of America, Pfizer, and other global organisations

2.4 – Introduction to Agentic AI Frameworks

- Frameworks: CrewAI, LangChain, LangGraph, and n8n for building production-grade AI agents
- Setting up n8n: Triggers, Nodes, Memory Systems, and AI Agent integration

PHASE 3 (20 HOURS): BUILDING REAL-WORLD AI AUTOMATION SYSTEMS

2 Hours per Project — Students Build 10 Autonomous AI Agents for the Real World

Each agent is built live, from scratch, alongside the instructor

1 Voice Controlled Personal Assistant

Interprets voice commands to autonomously manage calendars, draft emails, and coordinate meetings across different platforms.

2 Pizzahut Order Processing & Customer Service Bot

Chains tasks from taking orders and updating databases to providing real-time status tracking and resolving support tickets.

3 Social Media Platform Sentiment Analysis Agent

Scans social feeds, evaluates brand sentiment, and automatically triggers notification reports for marketing teams.

4 Automated Vendor Onboarding System

Orchestrates vendor registration and credential verification, while sending status updates to all stakeholders and syncing databases.

5 Marketing Leads Generation & Sales Assistant

Scours data to identify leads, then autonomously executes and manages personalized email sequences and multi-step sales workflows.

6 HR Recruitment Screening Agent

Reviews resumes, scores candidates based on criteria, and automatically sends interview invites to top-tier talent.

7 9 AM Daily AI News Curator

At 9:00 AM daily, this agent crawls five platforms to curate the top 10 news items in the user's selected category and delivers them to their WhatsApp and Email.

8 Supply Chain Route Planning Agent

Calculates optimal routes and automatically notifies drivers and customers while updating real-time logistics logs.

9 Bank Credit Scoring Agent

Executes multi-step workflows for document verification and credit checks, providing automated eligibility updates to all stakeholders.

10 E-Commerce Reverse Logistics & Returns Agent

Orchestrates the return flow by validating requests, updating inventory systems, and managing logistics coordination.

Outcome: Students own a portfolio of 10 autonomous AI agents — technically ready to build any end-to-end Agentic AI automation

PHASE 4 (1 HOUR): AGI & FUTURE OF AI

Strategic foresight for future leaders

4.1 – Defining AGI: What Happens When AI Surpasses Human Intelligence?

- What is Artificial General Intelligence (AGI) and why it matters
- Current timelines and perspectives from leading AI researchers
- How AGI will reshape industries, education, and society

4.2 – Ethical AI & Alignment: The Responsibility of an AI Creator

- The responsibility of being an AI Creator in the age of automation
- Bias, fairness, and the social implications of AI systems
- How today's students can become ethical architects of tomorrow's AI

PROGRAM LEADERSHIP & FACULTY



Anand Bulusu

15+ years Technology Leadership experience (Healthcare, Banking, and IT)

MBA – IIM Lucknow



Aditya Goda

14+ years Technology Leadership experience (Ex-Infosys, Microsoft)

MBA – IIM Lucknow



Garima Madas

13+ years Technology Leadership experience (Ex-Amazon, E&Y)

MBA – Cornell University



Vishal Gurram

15+ years Technology Leadership experience (Healthcare and IT)

MBA – IIM Lucknow

Expertise in AI/ML training and corporate workshops: Trained over 500+ senior management professionals and 4,000+ MBA students across B-schools

FELLOWSHIP DELIVERABLES



10 Agentic AI Automation Projects



Young Applied AI Leaders Fellowship Certificate

This fellowship transforms students from AI consumers to AI creators — preparing them to shape, lead, and define the future in an AI-driven World

Register for the Fellowship: www.proailearner.com/fellowship.html