

AIML LEARN^{COM.}

GEN AI

GEN AI - You've arrived

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Industry Landscape

The Flight to your Dreams

The AI industry needs professionals who can build efficient, ethical, and scalable systems while applying AI to real-world problems. By combining **strong technical skills** with responsible **practices**, learners can stand out in this fast-growing field.



\$665.7 billion

Expected size of the big data and analytics market by 2030



27.6% - CAGR

Expected CAGR of the global data analytics market From 2023 To 2030



\$4.4 trillion

Expected value added by Generative AI to the global economy annually.



\$667.9 billion

Estimated Generative AI market size by 2030, growing at a CAGR Of 47.5%



₹9,57,470

The average annual salary of a data analytics professional in India

Course Summary

Become a leader in the Generative AI era with this 24-week advanced program for software professionals. Master Transformers, Diffusion Models, VAEs, GANs, and LLM fine-tuning (PEFT/LoRA) using PyTorch and Hugging Face. Build hands-on projects in RAG, Agentic AI, and multimodal systems, apply MLOps and Responsible AI practices, and gain the expertise to design and deploy next-generation generative models.



Course Duration:

24 weeks



Course Timings

2 hours sessions, Twice a week



Instructor Support:

Live sessions and Q&A opportunities



Mode:

Online/ Face - Face (Pune)



Modules

What will you learn?



Modules 1–3: Foundations

Advanced Deep Learning, essential GenAI math, CNNs/RNNs/Embeddings, and dual framework exposure (PyTorch, TensorFlow).



Modules 4–7: Core Generative Architectures

Deep dive into VAEs, GANs, Attention, Transformers, and LLM pre-training fundamentals.



Modules 8–12: LLMs & Agentic AI

Master prompt engineering, fine-tuning (PEFT/LoRA), RAG systems, and agent frameworks (LangChain, LlamaIndex).



Modules 13–14: Image & Multimodal Generation

Learn Diffusion Models, text-to-image generation, CLIP, and multimodal architectures.



Modules 15–16: Ethics & MLOps

Evaluate models, apply Responsible AI practices, and implement GenAI MLOps for deployment and monitoring.



Modules 17–18: Future Directions & Capstone

Explore RLHF, World Models, and complete a specialization-focused capstone project.



Live Projects

Get hands on experience with Capstone projects

Tools You Will Learn



PyTorch



TensorFlow



Keras



Hugging Face



NumPy



Pandas



Matplotlib



AWS



Azure



Jupyter

Who Should Enroll?

Learners Who Will Benefit the Most

- ▶ Undergraduate and postgraduate students aspiring to build a career in AI/ML
- ▶ Entry-level job seekers aiming to specialize in AI/ML
- ▶ Working professionals from software or IT backgrounds
- ▶ Non-technical professionals transitioning into AI/ML
- ▶ Learners seeking to bridge the gap between Python basics and applied ML

Course Outcomes

Reach New Heights



Deep Learning (DL) Based Roles

- Computer Vision Engineer
- Robotics Engineer
- Deep Learning Engineer
- Research Scientist (CV)
- Research Scientist (ML)
- Applied Scientist
- Data Scientist (focus on NLP)



Machine Learning (ML) Based Roles

- ML Engineer
- ML Engineer
- ML Scientist
- ML Researcher
- Predictive Modeler
- Quantitative Analyst



Generative AI (Gen AI) Based Roles

- AI Research Scientist (NLP)
- AI Research Scientist (ML)
- Chatbot Developer
- NLP Engineer
- AI Engineer/Researcher

Certification & Assistance

Once you're done with the complete course you will receive a **Certificate, Assistance with Placement and Github Repository** from AIML learn.



Certificate



Placement Assistance



Assistance with GitHub
Repository

Ecosystem That Supports Your Success



Pause & Resume from the nearest milestone and get credit back after resuming the course

Doubt-solving sessions to work on your problems and learn from the mistakes of your peers

Get personalized **resume assistance** to craft a professional AI/ML resume to highlight your skills and projects to impress top employers.

We help you crack the code to **ace your AI/ML interviews** by guiding you through key concepts, problem-solving techniques, and real-world scenarios.

Access all **class recordings for 1 yr** anytime to review lessons and reinforce your learning. Never miss a session and revisit key concepts whenever you want.



Faculty & Advisors

At Aimllearn, we deliver in-depth AI and ML education, guided by experienced educators and business leaders with 30+ years of expertise.



SHRIRANG KARANDIKAR

Shrirang is a doctorate (PhD.) from USA.

A passionate educator and team builder, having worked over 30 years in the fields of advanced computational technologies companies like Intel, I.B.M, and Shell. He has 7 patents, 40 peer publications



Hear From Our Learners



Venkatesh Shaligram

Experience : Currently pursuing fourth year Btech in MIT, Pune

Place: Pune

"I went to the institute to meet Dr. Karandikar sir. His Profiles, 35 years of experience is not a small deal. I was very impressed by the conversation we had and decided I have to study under him. If you're serious about AI, if you're also tired of superficial YouTube videos and you want a mentor who can really guide you, there's no better place than AIML. You should and you must join AIML if you really wanted to learn the concept of AI."

Pritesh Bonde

Industry: Software / IT | Experience: 11+ years as Full Stack Developer

Place: Pune

"I've been thinking of starting an agricultural based startup and would be working with sir in the future. This course is itself helping me to make a base for my AI future. People who are thinking of learning and developing their careers in AI must visit AIML Learn."



Sanika Bhojraj

Professional : 10 yrs experience | Industry: Pharmaceuticals

Place: Pune

"It's magical how he teaches. I had a lot of fears about AI and ML, because I'm not from that background. But he really sat me down and told me that it's just a bunch of puzzles that I would like to solve. He always makes sure that we learn each and everything. And he has vast experience. I think that helps a lot in giving proper content context"

Akash Bhojraj

Professional : 10 yrs experience | Industry: It- gaming, Game Developer

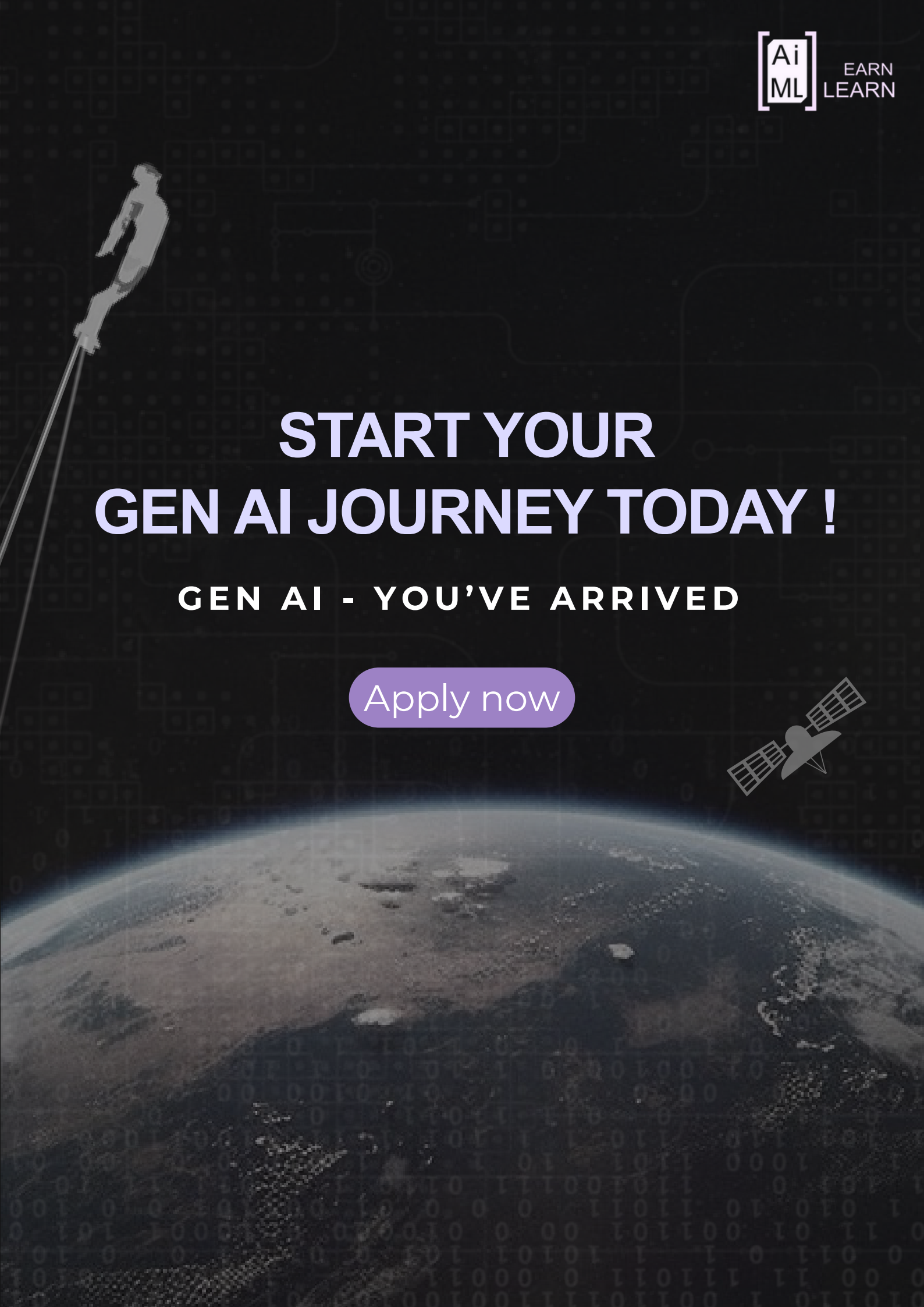
Location : Pune

"It's been a wonderful journey of learning. I really like how sir personally talks with you and like Any doubts you have, he clears with you. It's been a good journey right now. I definitely would like to learn more and more from sir when possible."





EARN
LEARN

The background features a dark space theme. At the top left, a silhouette of an astronaut is shown floating. At the bottom, a detailed view of the Earth's horizon is visible, with binary code (0s and 1s) scattered across the lower half. A satellite is depicted in the upper right quadrant. The overall aesthetic is high-tech and futuristic.

START YOUR GEN AI JOURNEY TODAY !

GEN AI - YOU'VE ARRIVED

Apply now

