

AIML LEARN^{COM.} **EVOLVE AI & ML**

AI - The Flight to your Dreams



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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

Today's organizations don't just need people who "know ML terms."

They need professionals who:

- Understand the mathematics and algorithms behind AI/ML.
- Can translate business problems into technical solutions. Are comfortable working with industry-standard tools and frameworks.
- Deliver practical results through live projects and case studies.
- This program is designed to make you industry-ready, with an end-to-end journey from programming to deep learning.

This is a complete course designed to build the foundations powering ML & AI along with a deep dive into AI & ML technologies.



Course Duration:

48 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?



Python Foundations (Weeks 1–6)

- Python programming essentials.
- Data handling with NumPy, Pandas, Matplotlib.
- Git/GitHub for professional version control.
- Mini-projects to strengthen coding fluency.



Mathematical Foundations (Weeks 7–24)

- Linear Algebra, Probability & Statistics.
- Calculus, Gradients, Optimization.
- Algorithms, Big-O complexity, Numerical Methods.
- Apply math concepts through hands-on coding projects.



Statistical Machine Learning (Weeks 25–36)

- Supervised learning: Linear/Logistic Regression, SVMs, Decision Trees, kNN.
- Unsupervised learning: Clustering, PCA, Dimensionality Reduction.
- Ensemble methods: Random Forests, Gradient Boosting.
- Model evaluation, validation, and selection.



Neural Networks & Deep Learning (Weeks 37–48)

- Fundamentals: Perceptrons, Backpropagation, Gradient Descent.
- PyTorch for building and training models.
- Deep architectures: CNNs, RNNs/LSTMs, Transformers.
- Applications: Computer Vision, NLP, Time-Series Forecasting.
- Capstone Project: end-to-end ML/DL solution.



Tools You Will Learn



Github



Python



Scikit Learn



Tensorflow



PyTorch



Pandas



OpenCV



OpenAI



NumPy



Kaggle



Azure



Jupyter



Who Should Enroll?

Learners Who Will Benefit the Most



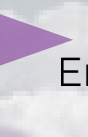
Undergraduate and postgraduate students aspiring to build a career in AI/ML



Learners seeking to bridge the gap between Python basics and applied ML



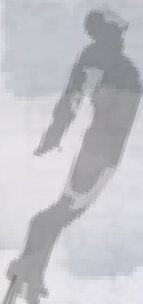
Working professionals from software or IT backgrounds



Entry-level job seekers aiming to specialize in AI/ML



Non-technical professionals transitioning into AI/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.



Case Studies:

Python Foundations

- Exploratory analysis on Iris, Penguins, and Wine datasets;
- Titanic survival prediction with data cleaning, feature engineering, and classification.

Mathematical Foundations

- Implement linear algebra operations in Python.
- Probability simulations and hypothesis testing on real-world data.
- Building optimization routines (gradient descent) from scratch.

Statistical Machine Learning

- California Housing dataset for regression.
- Credit card fraud detection (imbalanced classification).
- Customer churn prediction using logistic regression and ensembles.
- Movie recommendation engine using collaborative filtering and matrix factorization.
- Case studies: demand forecasting, predictive analytics in business.

Neural Networks & Deep Learning

- Computer Vision: MNIST and CIFAR-10 image classification, object detection tasks.
- NLP: Sentiment analysis on movie reviews, text classification, named entity recognition.
- Sequence Models: Forecasting time series with RNNs and LSTMs.
- Transformers: Fine-tuning pretrained models (e.g., BERT) for NLP tasks.

Faculty & Advisors

The Fight to your Dreams

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."





START YOUR AI & ML JOURNEY TODAY !

AI - THE FLIGHT TO YOUR DREAMS

Apply now

