



AIML LEARN^{COM.}

AI & ML MASTERY FOR TECHIES

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

Go beyond the basics and become a proficient AI & Machine Learning practitioner. This extended, in-depth course is meticulously designed for developers, testers, team leads, and software professionals aiming for a robust skill set and a confident transition into specialized AI/ML roles.



Course Duration:
24 weeks



Placement Assistance:
2 hours sessions
Twice a week



Instructor Support:
Live sessions and Q&A opportunities



Mode:
Online/ Face - Face (Pune)



Course Principles & Objectives

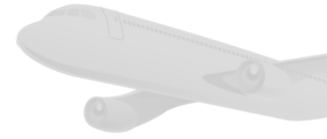
- **Mastery Through Depth & Breadth:** Build a comprehensive understanding, covering not just core concepts but also advanced algorithms in specialized domains (NLP, CV).
- **Rigorous Conceptual Foundations:** Gain deep intuition behind the math and algorithms, enabling you to innovate, troubleshoot complex problems, and critically evaluate different approaches.
- **Dual Framework Proficiency:** Achieve practical mastery in PyTorch.
- **Strategic Career Advancement:** Equip yourself with the advanced knowledge and extensive portfolio needed to target specialized AI/ML engineer, data scientist, or research-oriented roles.

Build your Capabilities

- **Build an Extensive, High-Impact Portfolio:** Complete numerous sophisticated projects covering diverse ML/DL tasks, including NLP, Computer Vision, and potentially Generative Models, showcasing advanced capabilities.
- **Command Advanced ML & DL Techniques:** Confidently implement, evaluate, and tune a wide array of algorithms: Linear/Logistic Models, SVM, Naive Bayes, Tree Ensembles (Random Forests, XGBoost, LightGBM), Advanced Unsupervised Learning, Anomaly Detection, and complex Deep Learning architectures (CNNs, RNNs/LSTMs, Transformers).
- **Become Framework Fluent:** Seamlessly work with PyTorch, understanding its strengths and capabilities.
- **Specialize in High-Demand Areas:** Gain significant practical experience in Natural Language Processing (NLP) and Advanced Computer Vision (CV) including Object Detection/Segmentation concepts.
- **Accelerate Your AI/ML Career:** Possess the deep knowledge and practical skills to stand out in the job market, targeting a wider range of AI/ML roles and contributing at a higher level.

Modules - 24 weeks

What will you learn?



Modules 1-2: Foundations & Data Techniques



ML lifecycle, advanced

EDA, preprocessing

Feature engineering

Math intuition (linear algebra, calculus, probability, stats)

Tools: Python (NumPy, Pandas), Visualization Libraries, Scikit-learn

Advanced Features.

Modules 3-5: Deep dive -Supervised & Unsupervised Learning



Linear models, SVM, Naive Bayes

KNN, tree ensembles (XGBoost/LightGBM)

Clustering (DBSCAN), anomaly detection

Dimensionality reduction (PCA, t-SNE/UMAP).

Tools: Scikit-learn, XGBoost, LightGBM.



Module 6: Deep Learning Mastery (Dual Framework)

Advanced NN optimization, (Optimization, Backpropagation nuances, Regularization deep dive)

Architectural Patterns.

Tools: PyTorch.

Module 7: Advanced Computer Vision



Advanced CNN Architectures (ResNet concept),

Transfer Learning (Feature Extraction vs. Fine-Tuning)

Object Detection & amp

Image Segmentation Fundamentals.

Tools: PyTorch, torchvision.

Module 8:

Natural Language Processing (NLP) with Transformers



Word Embeddings (Word2Vec/GloVe)

Sequence Modeling

Attention Mechanisms,

Transformer Architecture

Pre-trained Models (BERT/GPT concepts)

Fine-tuning Transformers for downstream tasks.

Tools: PyTorch, Tokenizers.



Tools You Will Learn



Github



Python



Scikit Learn



Tensorflow



PyTorch



Pandas



OpenCV



OpenAI



NumPy



Matplotlib



Keras



Jupyter



Kaggle



Azure



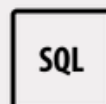
Huggingface



Google Cloud



AWS



SQL



Projects:

Turning Theory into Impact

ML

- Image recognition
- MNIST digits & fashion
- Brain tumor detection
- Malaria cell image classification
- CIFAR-100
- ImageNet
- COCO

NLP & RNN

- ECG
- IMDB movie review
- Human v. fake news

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




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



Other 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 Completion **Certificate, Placement Assistance** with a **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.



Who Should Enroll?

Learners Who Will Benefit the Most

Prerequisites:

 **Solid programming experience (any language - preferably Python).**

Familiarity with basic software development concepts. No prior ML experience required, but a strong desire to learn is essential.

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

 **Working professionals from software or IT backgrounds**

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

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

