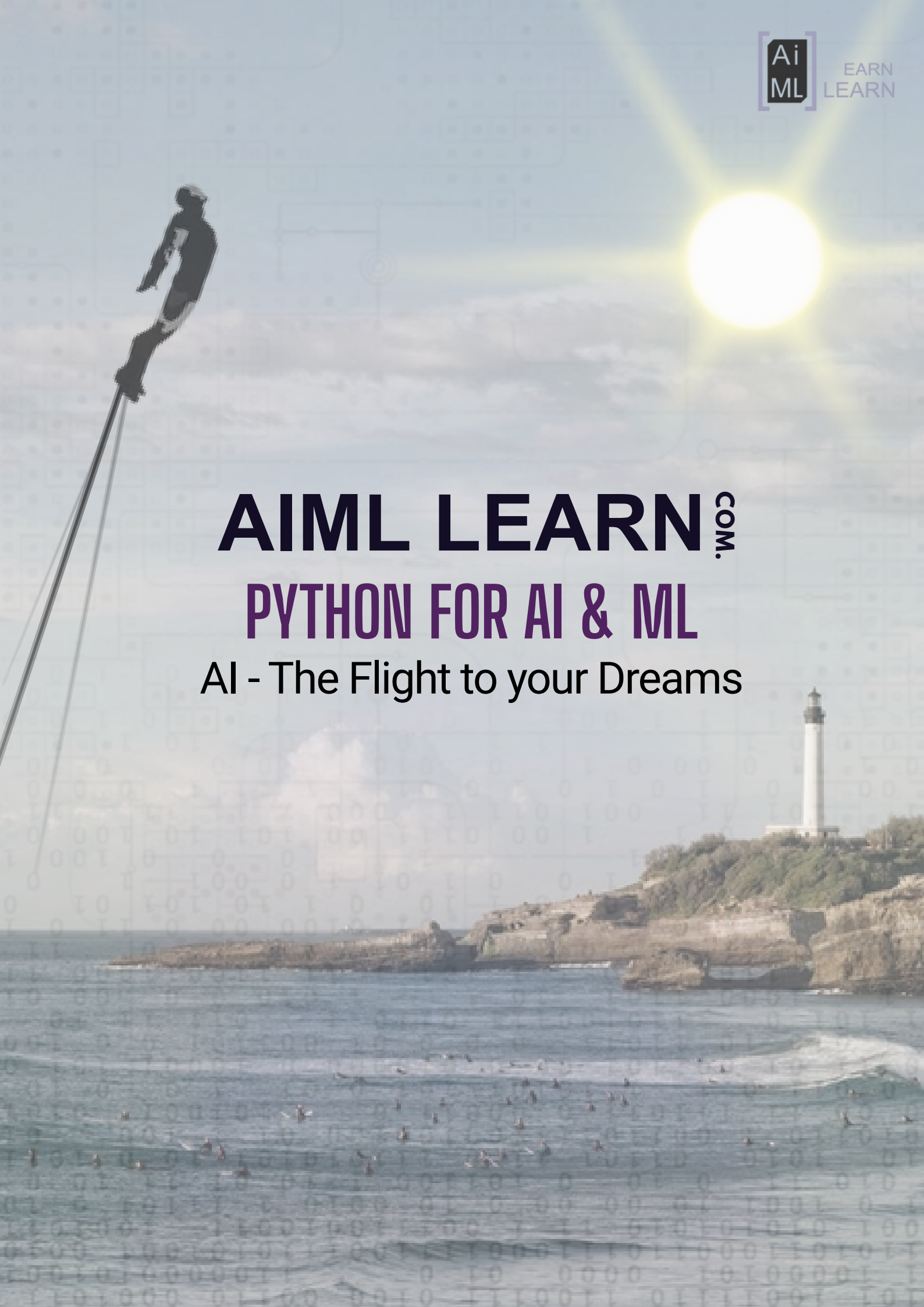


AIML LEARN^{COM.}

PYTHON FOR 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, 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

Machine Learning is built on Python — but to use it effectively and step into the world of Artificial Intelligence, you need to go beyond the basics. This course equips you with the programming, data handling, and visualization skills required to step confidently into AI and Machine Learning development. Designed for both students and professionals, this 4-week intensive bootcamp provides hands-on programming experience, mini-projects, and a capstone project that directly bridges into an AI/ML workflow.

Why choose this course ?

Unlike most python courses that focus on python for full stack development, this course is designed for people wishing to pursue Machine learning & AI. It deep dives into the mathematics that makes python the awesome engine for ML & AI.



Course Duration:

4 weeks - twice a week



Instructor Support:

Live sessions and Q&A opportunities



Mode:

Online





Modules

What will you learn?



Module 1: Beginning Python Programming

- Syntax, data types, operators.
- Conditionals and loops.
- Lists, tuples, sets, dictionaries.
- Functions and mini-projects (calculator, guessing game, word counter).



Module 2: Intermediate Python

- Advanced functions (*args, **kwargs, lambdas).
- Error handling, file I/O.
- Modules and packages.
- Object-Oriented Programming basics.
- Mini-projects: contact book, student/bank account class.



Module 3: NumPy Foundations

- Arrays vs lists, creation and attributes.
- Array operations, slicing, masking, broadcasting.
- Linear algebra operations and random number generation.
- Mini-project: implement gradient descent for linear regression.



Module 4: Data Visualization

- Line plots, bar charts, scatter plots, histograms.
- Subplots, annotations, styling.
- Seaborn: distribution plots, scatter with regression, heatmaps.
- Mini-project: Titanic dataset visualization and survival analysis.



Module 5: Pandas for Data Handling

- Series and DataFrames.
- Reading/writing CSV, Excel, JSON.
- Filtering, sorting, handling missing values.
- Groupby, aggregation, joins, pivot tables.
- Pandas plotting and time series basics.
- Mini-project: Sales dataset analysis



Module 6: Advanced Concepts & Projects

- List/dict comprehensions, generators, decorators.
- Virtual environments and package management.
- Git & GitHub for version control and project repositories.
- Capstone Projects.



Who Should Enroll?

Learners Who Will Benefit the Most



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



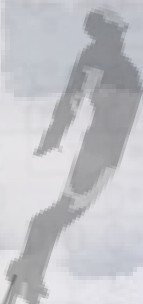
Learners seeking to bridge the gap between Python basics and applied ML



Working professionals from software or IT backgrounds



Aspiring AI/ML or Data Science learners who need Python as a base



Tools You Will Learn

What will you learn?



Python



Matplotlib



NumPy



Jupyter



Pandas



Course Outcomes

Reach New Heights



Data Science and Machine Learning Based Roles

- Data Scientist
- Machine Learning Engineer (ML/AI Engineer)
- Data Analyst
- Data Engineer



Software and Web Development Based Roles

- Python Developer
- Full-Stack Developer
- Software Engineer



Automation and Systems Operations Based Roles

- DevOps Engineer
- Automation and Test Engineer
- Systems Administrator/Engineer
- Cybersecurity Specialist

Certification & Assistance

Once you're done with the complete course you will receive a **Certificate** from AIML learn.



Certificate

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 **portfolio of projects** to highlight your skills and projects to impress top employers.

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

Access all **class recordings for 1 year** to review lessons and reinforce your learning. Never miss a session and revisit key concepts.



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

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

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

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

START YOUR AI JOURNEY TODAY !

PYTHON - THE FLIGHT TO YOUR DREAMS

Apply now

