



# **AIML LEARN**<sup>COM.</sup>

# **GEN AI FOR LEADERS**



**AI - The Flight to your Dreams**

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# Industry Landscape

## The Flight to your Dreams

The AI industry needs Leaders and professionals who can build efficient, ethical, and scalable systems while applying AI to real-world problems. By combining **strong technical skills** with responsible yet practical **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%

# Course Summary

You don't need to write the code. But you do need to know how it works.

You are a leader with years of experience. You have a team. You have a vision.

What you might not have is clarity on how to translate that vision into software in the age of AI.

This course is not a coding bootcamp. We aren't trying to turn you into a developer.

We are solving a specific problem: the disconnect between "Management" and "Engineering".

To lead effectively today, you can't view AI as a magic black box. You need a "Gray Box"

understanding — enough technical depth to look under the hood, ask the right questions, and direct your technical teams with authority.



**Course Duration:**

**12 weeks**



**Placement Assistance:**

**2 hours sessions**

**Twice a week**



**Instructor Support:**

**Live sessions and Q&A opportunities**



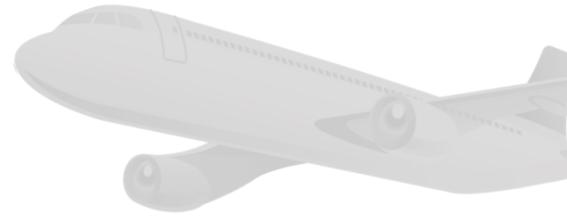
**Mode:**

**Online/ Face - Face (Pune)**



# Modules

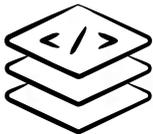
## What will you learn?



### Module 1 : The "Gray Box" Architecture (Anatomy of an Application)

**The Concept:** You will learn the fundamental building blocks of modern software: the Frontend (what users see), the Backend (the logic), and the Database (the memory)

**The Takeaway:** You will stop seeing software as "magic" and start seeing it as components. You'll learn to identify exactly where a bottleneck lies so you can assign the right resources to fix it.



### Module 2 : The Executive's Tech Stack (Literacy, Not Fluency)

**The Concept:** Learn to read and understand AI systems using the Big 5 technologies — Python, JSON, APIs, SQL/Vector DBs, and Git — without writing code from scratch.

**The Takeaway:** You'll be able to explain what a script does in business terms, audit rules yourself, understand integrations via APIs, and see Git as your business's key safety net.



### Module 3 : From "Vibe" to Spec : The New Requirement Gathering

**The Concept:** Prompt engineering is structured specification — turning complex business logic into clear, step-by-step instructions that can be executed reliably.

**The Takeaway:** You'll learn to write precise specifications that remove ambiguity and communicate exactly what developers (and LLMs) need to build the right solution.



### Module 4 : Data Strategy & Feasibility (The "Build vs. Buy" Decision)

**The Concept:** We will move beyond ChatGPT and look at RAG (Retrieval-Augmented Generation) —how to connect AI to your unique business data securely.

**The Takeaway:** You will learn to audit your own organization's data readiness. You'll be able to tell your team what data needs to be cleaned and prepared before a project even starts.

### Module 5 : The MVP Mindset : Validating ROI Before Engineering

**The Concept:** You will use AI tools to rapidly prototype ideas yourself — creating "micro-tools" to test a theory.

**The Takeaway:** You will learn to validate the "Cost-Benefit" of an idea before hiring a full engineering team. You'll be able to hand your production team a working prototype and say, "Build this, but robust," rather than describing a vague idea.



# Tools You Will Learn



Category	Tool	Concept
Logic & Code	Colab	Python fundamentals, Debugging
Architecture	OpenAI Playground	System prompts, Temperature, Token costs
Deployment	Replit	"Vibe coding", Hosting, Cloud environments
Integration	Make.com	APIs, Webhooks, Automation workflows
Data	Airtable	Structured data, Relational schemas
Strategy	Hugging Face	Open v. closed source, Data privacy

# Who Should Enroll?

## Learners Who Will Benefit the Most

- ▶ **People with no coding experience**
- ▶ **Speakers, managers, and decision-makers**
- ▶ **Leaders running organizations or managing teams**
- ▶ **Individuals with an MBA or business management background**
- ▶ **People with a strong foundation in statistics, mathematics, and logical reasoning**
- ▶ **Professionals from economics, maths, or statistics backgrounds**
- ▶ **Small to Medium Enterprise (SME) owners and operators**
- ▶ **People who want to leverage AI tools effectively**
- ▶ **Startup founders and early-stage teams**



# Course Outcomes

## Reach New Heights

We frame the outcomes of this course around the critical questions you need to answer for your organization. By the end of this course, you will have the answers.



### "Is this actually possible, or is it just a demo?"

- You will learn to strip away the hype. By building a prototype yourself, you will understand exactly where the "hallucinations" happen and where the real value is. You will be able to look at a vendor proposal or an internal pitch and instantly judge its technical feasibility.



### "Who do I need to hire to build this?"

- The AI stack requires new roles. You will learn to identify the gaps in your current team. Do you need a Data Engineer to clean your records, or a Prompt Architect to refine the logic? You will stop hiring "developers" and start building the right squad with the specific skill sets required.



### "Why is this costing so much?"

- You will gain "Architectural Empathy. " Because you have seen the components, you will understand the complexity. You will know when an estimate is padded and when it is realistic, and you'll know how to manage the budget based on token usage and infrastructure costs.



### "Is our data ready for this?"

- You will learn to look at your company's data assets through the lens of an AI model. You will be able to identify which data is "clean" enough to use (Structured SQL) and which requires semantic search (Vector DBs), and what security protocols need to be in place.

# Projects (What You Will Prototype)

Turning Theory into Impact. We don't deal in abstract theory. During the course, we will dissect and prototype real-world business utilities. You will leave with the architectural "blueprints" for these tools, ready to be handed to your internal teams for full-scale development.

## 1. The "Talk-to-Your-Data" Analyst

1. The Business Problem: Waiting days for an analyst to pull a simple report (e.g., "Show me Q3 profit margins by region").
2. The "Gray Box" Solution: We will build a Natural Language Query tool that converts plain English into SQL code, executes it against a database, and returns the exact data.
3. Key Lesson: Understanding how databases work and how to stop AI from "hallucinating" numbers.

## 2. The "Smart" Document Extractor

1. The Business Problem: Manual data entry from invoices, receipts, or purchase orders.
2. The "Gray Box" Solution: We will use Vision Models to "see" a PDF invoice, extract specific fields (Date, Vendor, Tax), and format them into clean JSON data that can be sent directly to an ERP system.
3. Key Lesson: How to replace expensive legacy OCR software with modern AI.

## 3. The "RFP Defender" (Contract Review)

1. The Business Problem: Determining if a 50-page contract contains risky clauses (e.g., "indemnification") requires hours of legal time.
2. The "Gray Box" Solution: We will use RAG (Retrieval-Augmented Generation) to upload a specific document and ask the AI to cite page numbers where risks appear.
3. Key Lesson: The difference between a generic chatbot and a private "Knowledge Base" (Vector Database).

## 4. The "Competitor Watchdog" Agent

1. The Business Problem: Monitoring competitor pricing and messaging manually is slow and inconsistent.
2. The "Gray Box" Solution: We will build an Autonomous Agent that visits specific websites, detects changes in pricing, and sends a summary to your Slack/Email.
3. Key Lesson: Moving from "Chatbots" to "Agents"—giving AI access to the internet and tools to perform tasks automatically.



## Projects (What You Will Prototype)

### 5. The AI Executive Assistant

- 1.The Business Problem: The "Calendar Waltz"—coordinating times, booking meetings, and organizing disparate notes.
- 2.The "Gray Box" Solution: We will connect an LLM to your Calendar and Email APIs, allowing you to give instructions like "Find 30 minutes with John next Tuesday" and have the AI execute the booking.
- 3.Key Lesson: Understanding APIs & Integration—the "glue" that connects AI to the rest of your business software.

# Certification

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



Certificate



GitHub Repository

# Ecosystem That Supports Your Success



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

We help you crack the code to **ace your 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

## 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



**Sandesh Bhalerao**

Experience : 17 yrs Manager & Tech lead | Agile certified coach| Oracle developer ,Pune.  
 "I went to the institute to meet Dr. Karandikar sir. Initially i was quite afraid of AI but now I am comfortable with AI concepts. Sir teaches in great depth which reflects his experience in this field. I along with my team members have joined and feel we have come to the right place and the right mentor."

**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 JOURNEY TODAY !

Apply now

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