

IBM AICTE PROJECT

LearnMate AI

PRESENTED BY:

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OUTLINE:

1. Problem Statement

2. Technology used

3. Wow factor

4. End users

5. Result

6. Conclusion

7. Git-hub Link

8. Futurescope

9. IBM Certifications

PROBLEM STATEMENT:

Many students feel lost in a maze of online courses, unsure which path fits their goals. Without tailored guidance, their learning becomes scattered and inefficient. LearnMate solves this by using Agentic AI to build adaptive, interest-based course roadmaps—powered by IBM Cloud Lite and Granite—to guide students confidently and personally.

PROPOSED SOLUTION:

LearnMate is an Agentic AI coach that interacts with students, understands their interests and skill levels, and builds dynamic, personalized course roadmaps. Powered by IBM Cloud Lite and Granite, it adapts over time to guide learners toward meaningful, goal-aligned progress.

TECHNOLOGY USED:

- 1. IBM Cloud Lite**
- 2. IBM Granite Models.**
- 3. Watsonx.AI**
- 4. Natural Language Processing
(NLP)**

IBM CLOUD SERVICES USED:

- 1. IBM Cloud Watsonx AI Studio**
- 2. IBM Cloud Watsonx AI runtime**
- 3. IBM Cloud Agent Lab**
- 4. IBM Granite foundation mode**

WOW FACTORS:

LearnMate runs on IBM Cloud Lite, combining Watsonx and Granite LLMs to deliver intelligent, adaptive student guidance—right from the browser. There's no setup required; users just access and engage. The system is responsive, secure, and designed for scale, backed by enterprise-grade IBM infrastructure. It's not just hosted—it's built for real-world impact.

END USERS:

- College Students**
- Freshers**
- High School Students**
- Working
Professionals**

RESULTS:

< Build > Agent preview



LearnMateAI 06:15 PM

Welcome to LearnMateAI

🔍 Personalized agentic learning companion platform or 🚀 Adaptive AI-powered student roadmap builder



Type something...



RESULTS:

Build >

Agent preview

SM You: 06:17 PM

I was very enthusiastic to learn technology and coding, software what are the course pathways available?

 LearnMateAI 06:17 PM

To provide you with the best course pathways for learning technology and coding, I'll need to gather information from various sources. Here's a general roadmap that covers a broad range of tech skills, which you can adapt based on your specific interests:

1. Beginner Level:


- **HTML/CSS:** Start with the basics of web development. Codecademy and freeCodeCamp offer interactive courses.
- **JavaScript:** Learn the fundamentals of JavaScript. Mozilla Developer Network (MDN) has comprehensive documentation.
- **Version Control/Git:** Understand how to use Git for version control. Try GitHub's interactive Git and GitHub

|Type something...



RESULTS:

Agent preview

 You: 06:19 PM

IAM WILLING TO LEARN THE CLOUD COMPUTING

 LearnMateAI 06:19 PM

To learn cloud computing, here's a structured roadmap with resources and steps:

1. Fundamentals of Cloud Computing

- **Understand the Basics:** Learn what cloud computing is, its types (IaaS, PaaS, SaaS), deployment models (Public, Private, Hybrid, Multi-cloud), and benefits.
 - Resource: [Cloud Computing Fundamentals](#) by Google Cloud on Coursera.


2. Choose a Cloud Provider

- **Select One to Specialize In:** Start with one major provider. AWS, Google Cloud, and Microsoft Azure are the most

Type something...



RESULTS: DEPLOYMENT SPACE:

LearnMateAI  Deployed Online



API reference Test **Preview**

New chat +



LearnMateAI 06:22 PM

Welcome to LearnMateAI

 Personalized agentic learning companion platform or  Adaptive AI-powered student roadmap builder



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CONCLUSION:

- **LearnMate bridges the gap** between overwhelming course options and meaningful student guidance using Agentic AI.
- **Powered by IBM Cloud Lite, Watsonx, and Granite LLMs**, it delivers scalable, secure, and intelligent support for learners.
- **Designed for adaptability**, the platform evolves with user progress and personal goals to ensure lasting relevance.
- **LearnMate isn't just a tech solution—it's a learning companion**, reshaping how students discover, grow, and succeed.

GITHUB LINK:

https://github.com/Msanthosh-hub/LearnMate_AI.git

FUTURE SCOPE:

- Scalability across disciplines**: LearnMate can be expanded to guide students in various fields, from engineering to humanities.
- Multilingual and inclusive access**: Integrating language support can make guidance available to learners in diverse regions.
- AI-powered personalization**: Future updates could offer real-time adaptive feedback tailored to each student's learning journey.
- Career-integrated pathways**: The platform can evolve to map skills to jobs, internships, and certifications, boosting long-term relevance.

IBM CERTIFICATION:

In recognition of the commitment to achieve
professional excellence



Santhosh Manikandan

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 16, 2025
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IBM CERTIFICATION:

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to
Santhosh Manikandan

for the completion of

**Lab: Retrieval Augmented Generation with
LangChain**

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 24 Jul 2025 (GMT)

Learning hours: 20 mins

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**THANK
YOU**

