

# **IBM AICTE PROJECT**

## **COLLEGE ADMISSION AGENT (RAG Based)**

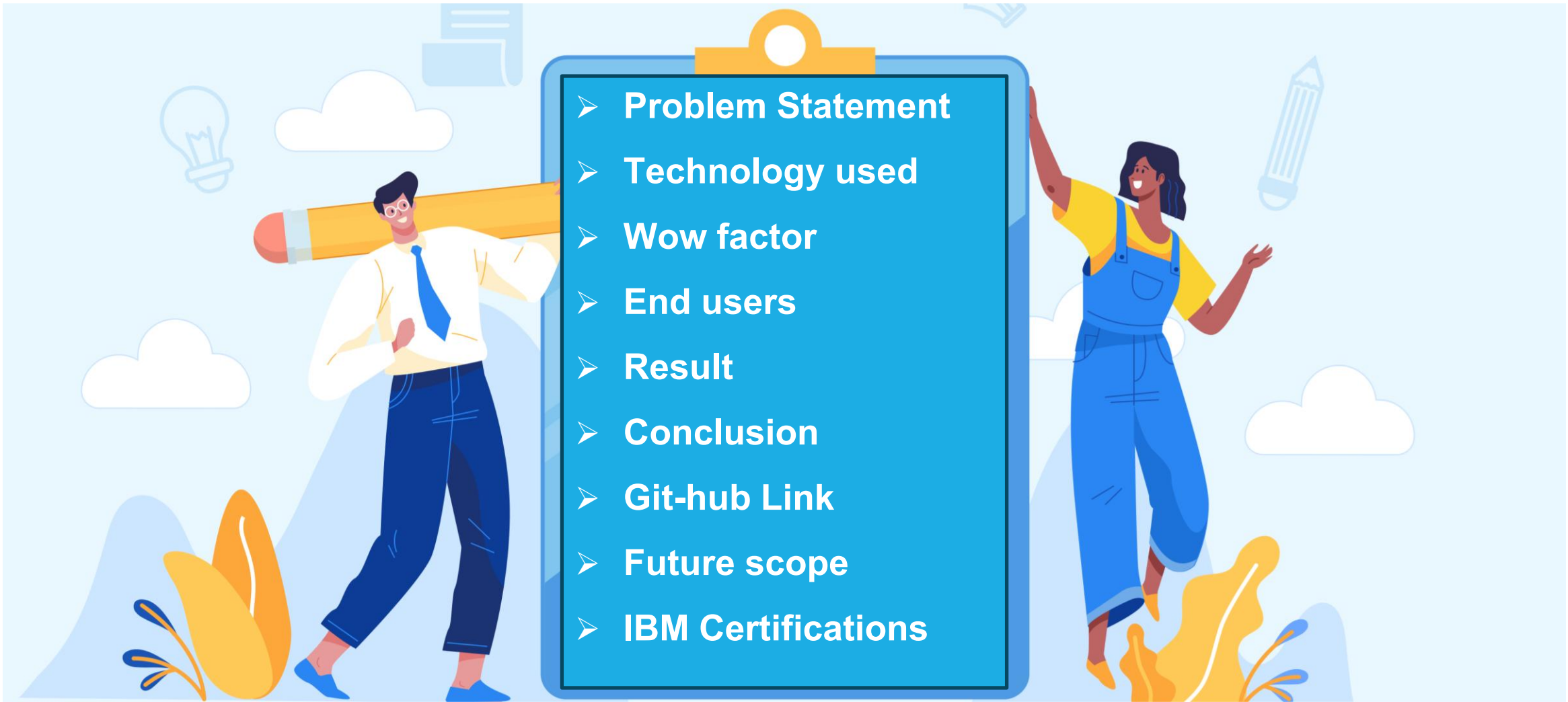
Built using IBM Cloud + Agentic AI with Retrieval-Augmented Generation

**Student name : V S SHRILAKSHMI**

**College Name : Modern Education Society Wadia College of Engineering Pune**

**Department : ELECTRONICS & TELECOMMUNICATION ENGINEERING**

# OUTLINE

- 
- Problem Statement
  - Technology used
  - Wow factor
  - End users
  - Result
  - Conclusion
  - Git-hub Link
  - Future scope
  - IBM Certifications

# PROBLEM STATEMENT

Manual admission processes are time-consuming and inefficient. Students often face:

- Difficulty understanding complex eligibility rules
- Lack of clear fee structure information
- Delays in getting responses to their queries
- Scattered or outdated information on websites

Traditional admission systems rely heavily on human staff, leading to:

- Increased workload
- Inconsistent communication
- Poor applicant experience

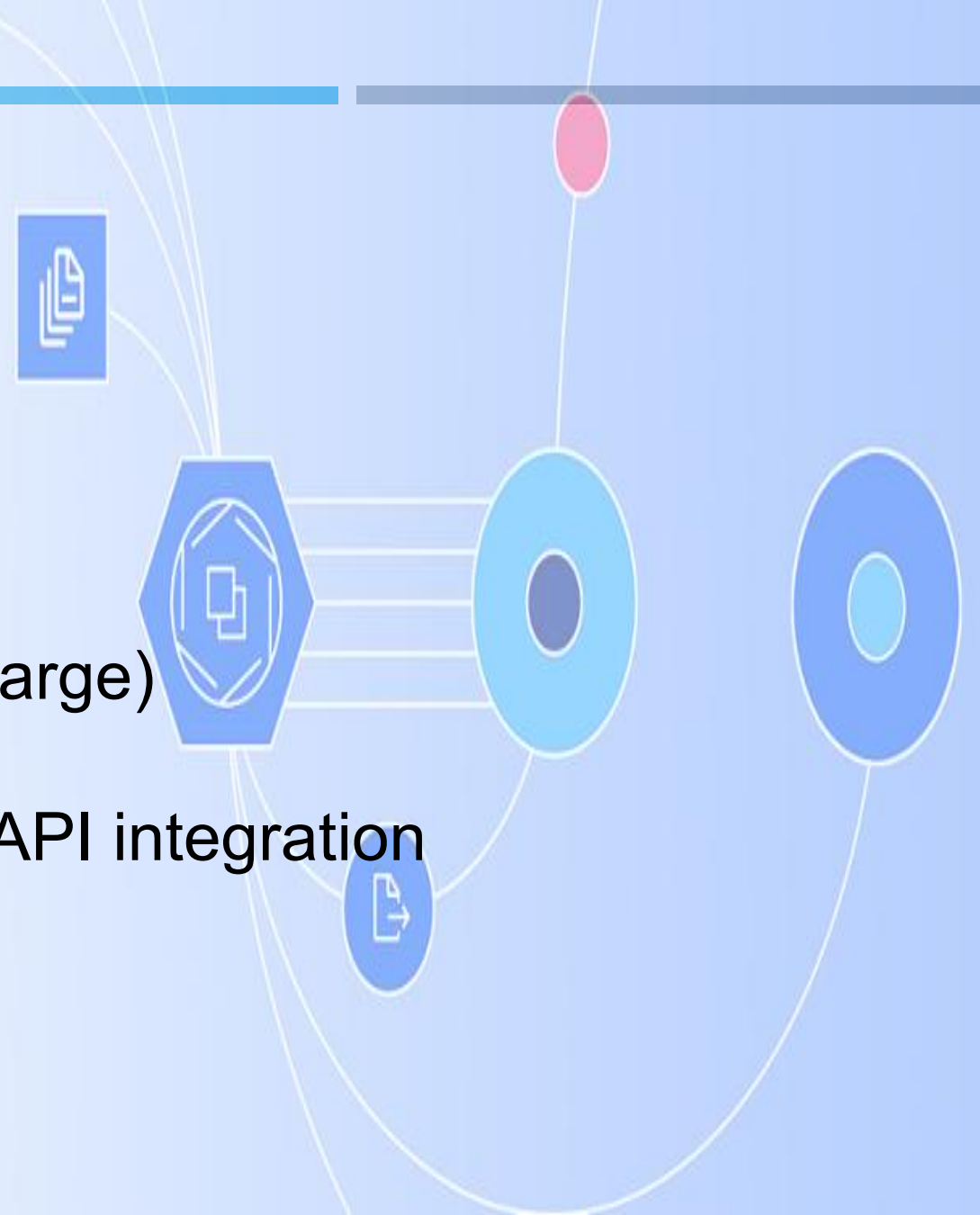


## Proposed Solution : AI-Powered Admission Assistant :

- ◆ Built using **IBM Watsonx.ai**, **Granite/Mistral foundation models**, and **Cloud Object Storage**
- ◆ Uses **RAG (Retrieval-Augmented Generation)** to retrieve relevant answers from documents
- ◆ Trained on college brochures, FAQs, and policies
- ◆ Integrated into a user-friendly chat interface

# TECHNOLOGY USED

- IBM Cloud Object Storage (Lite)
- Watsonx.ai Studio
- IBM Foundation Models (Mistral-Large)
- Agent creation, Deployment, and API integration



## IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Object Storage
- IBM Cloud Agent Lab
- IBM Mistral model



# IBM Cloud

# WOW FACTORS

- 🔍 **Real-time Q&A** from actual brochures and policies
- 🧠 **RAG-powered answers** – accurate, no hallucination
- 🔒 **Private & trusted data** (no external sources)
- ⚙️ **No-code agent creation** via IBM Watsonx Studio
- 🌐 **API-ready & easily deployable**
- 🏠 **Reusable across colleges** — just upload new docs

## Unique features:

- 24/7 Student Support
- Reduces Admission Helpline Load
- Easy Access to Verified Info
- Personalized, Context-Aware Responses
- Scalable Across Institutions
- Agent is built, deployed, and tested **entirely within IBM Watsonx Studio** — no extra tools required!



# END USERS

- **Prospective Students** – Get instant answers about admissions, eligibility, deadlines, and fees
- **Parents/Guardians** – Access clear info on application steps and scholarships
- **College Admission Officers** – Automate common queries, focus on complex cases
- **Counselors & Helpdesk Staff** – Use as a support tool during peak admission seasons



# RESULTS

IBM watsonx

Upgrade ?

V S Shrilakshmi's Account

London


VS

[Deployment spaces](#) / [College Admission Agent-Deployment](#) / [watsonx Agent](#)

watsonx Agent ✓ Deployed Online

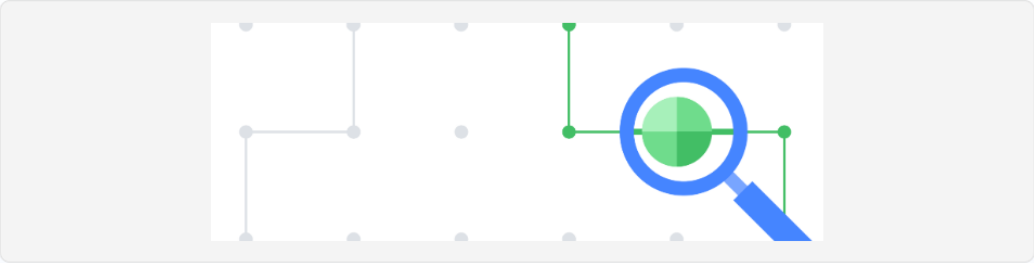
[API reference](#) [Test](#) [Preview](#)


New chat +

 watsonx Agent 01:06 PM

### Welcome to watsonx Agent

Change this description to reflect your particular agent







# RESULTS

IBM watsonx

Upgrade ? V S Shrilakshmi's Account London VS

Deployment spaces / College Admission Agent-Deployment / watsonx Agent

watsonx Agent ✓ Deployed Online

API reference Test **Preview**

New chat +

You 01:00 PM

Which document do you have?

watsonx Agent 01:00 PM

ABC\_College\_Admission\_Brochure

You 01:00 PM

what are the eligibility criteria?

watsonx Agent 01:00 PM

**Eligibility Criteria**

**For Undergraduate Courses (B.Tech/B.Sc.):**

- Must have completed 10+2 (Science stream) with a minimum of 60% marks.
- For B.Tech: Qualifying score in JEE Main or state engineering entrance.


**For Postgraduate Courses (M.Tech/M.Sc./MBA):**


- Bachelor's degree in relevant field with minimum 55% aggregate.
- MBA: Score in CAT/MAT/CMAT or Institute Entrance Test.


Type something...


# RESULTS


## Deployed AI Agent

 IBM watsonx

Upgrade ? 

V S Shrilakshmi's Account 

London 

VS 

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### watsonx Agent

 Deployed Online

[API reference](#) [Test](#) **[Preview](#)**

New chat +

 You 01:00 PM

Which document do you have?

 watsonx Agent 01:00 PM

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 You 01:00 PM

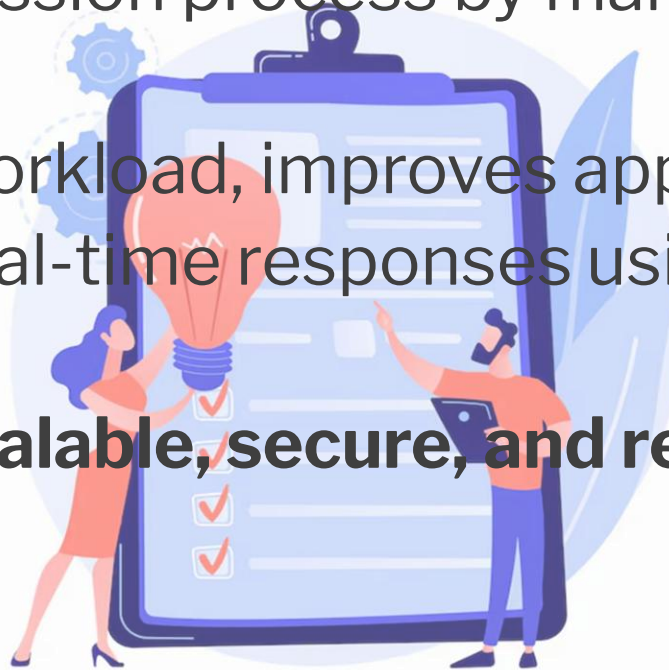
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 watsonx Agent 01:00 PM

Type something... 

## CONCLUSION

- The College Admission Agent, built using IBM Watsonx and RAG, transforms the admission process by making it **faster, smarter, and more accessible**.
- It reduces manual workload, improves applicant experience, and ensures accurate, real-time responses using trusted institutional data.
- This AI solution is **scalable, secure, and ready to support modern education systems**.



# FUTURE SCOPE

## ■ Multilingual Research Support

Assist students in regional and international languages.

## ■ Voice-Activated Research Assistant

Enable voice-based interactions for accessibility.

## ■ Form Filling Assistance

Guide students step-by-step through applications.

## ■ Integration with CRM/ERP

Sync with existing college management systems.



# IBM CERTIFICATIONS

## ➤ Getting Started with AI

In recognition of the commitment to achieve  
professional excellence



V S Shrilakshmi

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 19, 2025  
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/54679a6e-1082-4b93-8fbd-e6ec04d766df>



## ➤ Journey to cloud certificate

In recognition of the commitment to achieve  
professional excellence



# V S Shrilakshmi

Has successfully satisfied the requirements for:

## Journey to Cloud: Envisioning Your Solution

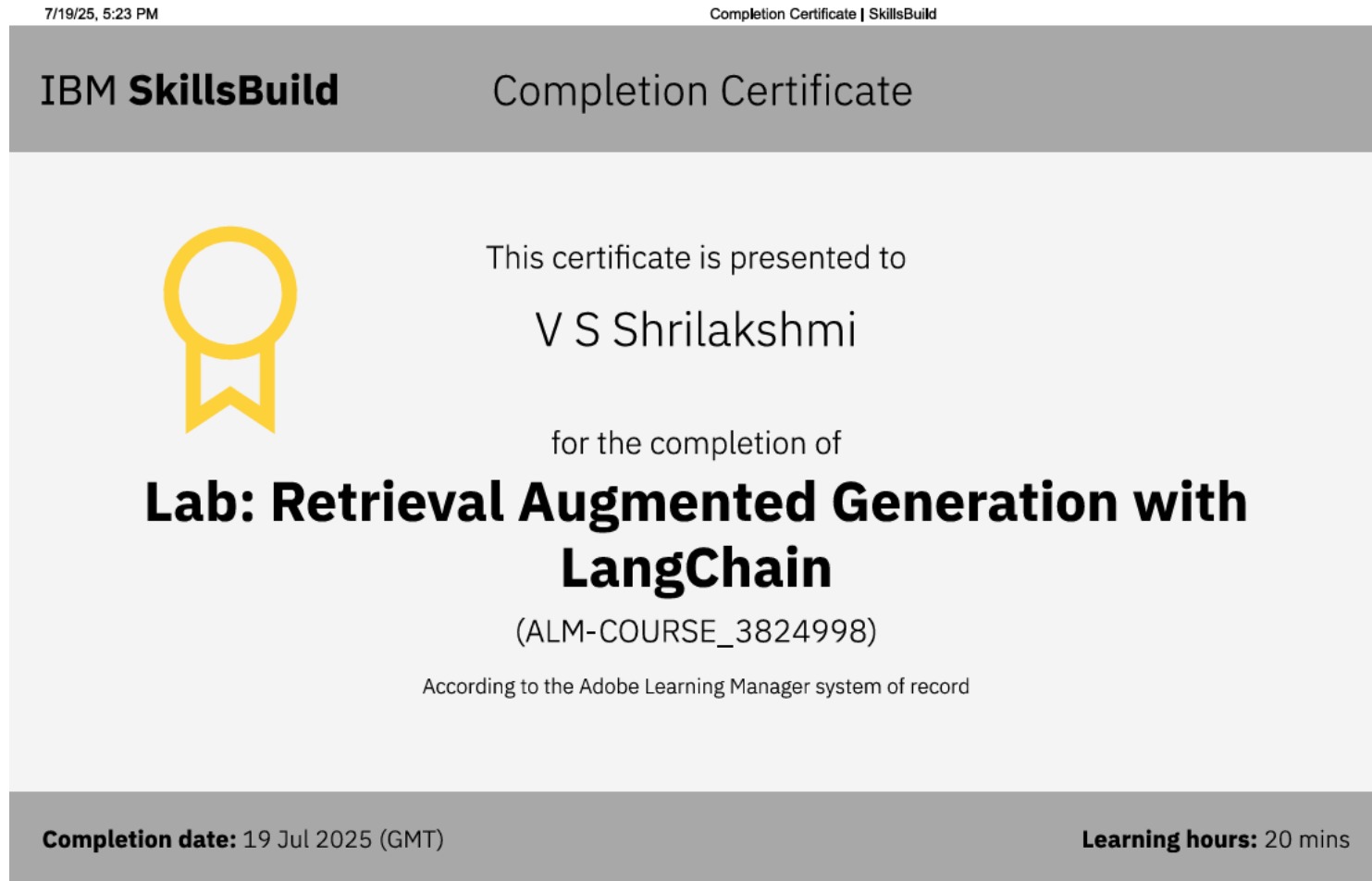


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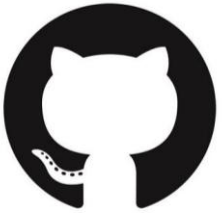
Verify: <https://www.credly.com/badges/aa766e9a-4a9c-41b4-bd94-6f782105274b>



➤ RAG LAB certificate



## GITHUB LINK



Github link :

[https://github.com/Shrilakshmi248/College\\_Admission\\_AI\\_Agent.git](https://github.com/Shrilakshmi248/College_Admission_AI_Agent.git)



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# THANK YOU

