IBM AICTE PROJECT

COLLEGE ADMISSION AGENT (RAG Based)

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

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Department : ELECTRONICS & TELECOMMUNICATION

OUTLINE

- ➢ **Problem Statement**
- ➢ **Technology used**
- ➢ **Wow factor**
- ➢ **End users**
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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- Scattered or outdated information on websites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 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

edu**net**
foundation

TECHNOLOGY USED

- IBM Cloud Object Storage (Lite)

- Watsonx.ai Studio

- IBM Foundation Models (Mistral-Large)

- Agent creation, Deployment, and API integration
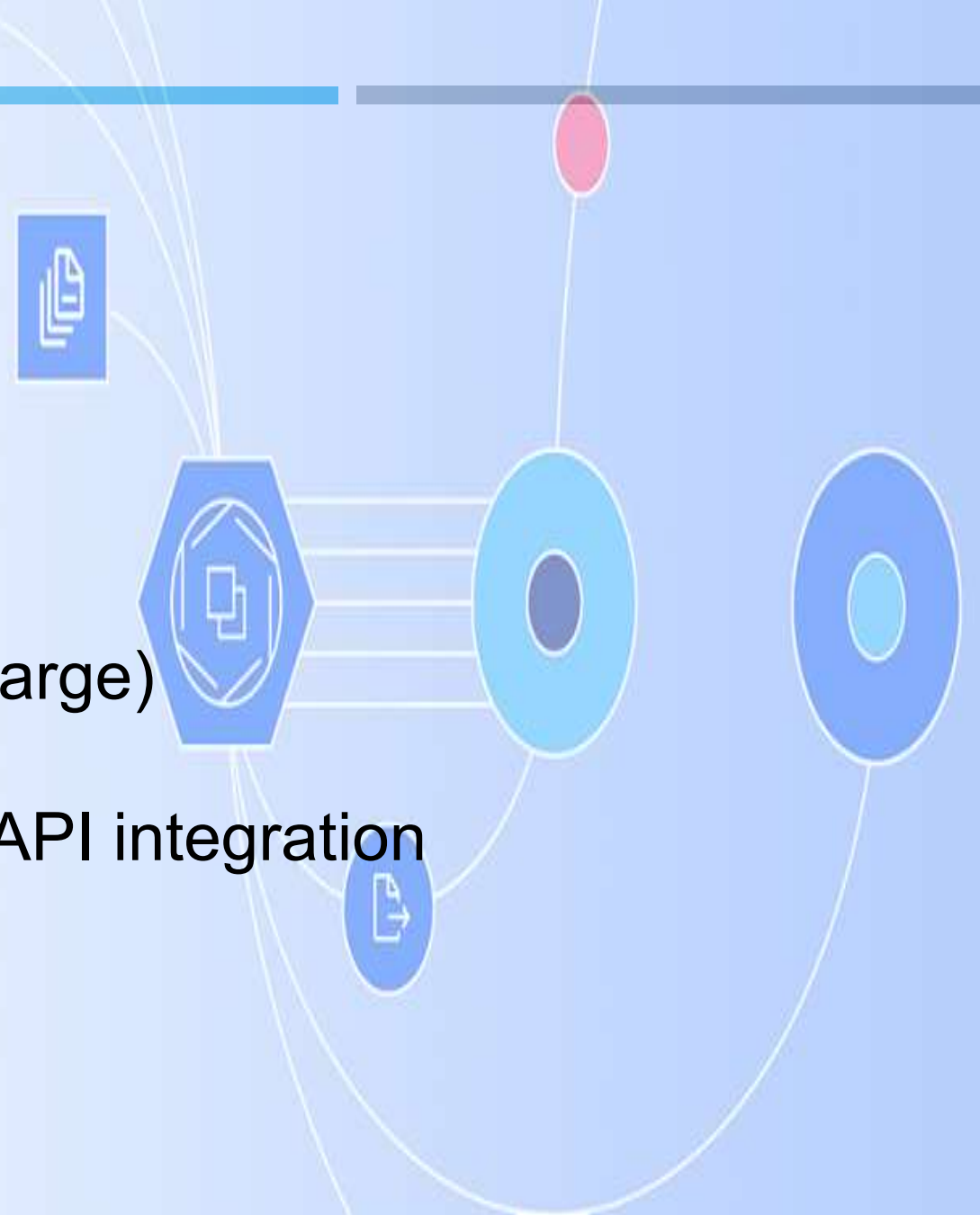
IBM CLOUD SERVICES USED

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

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

RESULTS

RESULTS
Deployed AI Agent

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**.
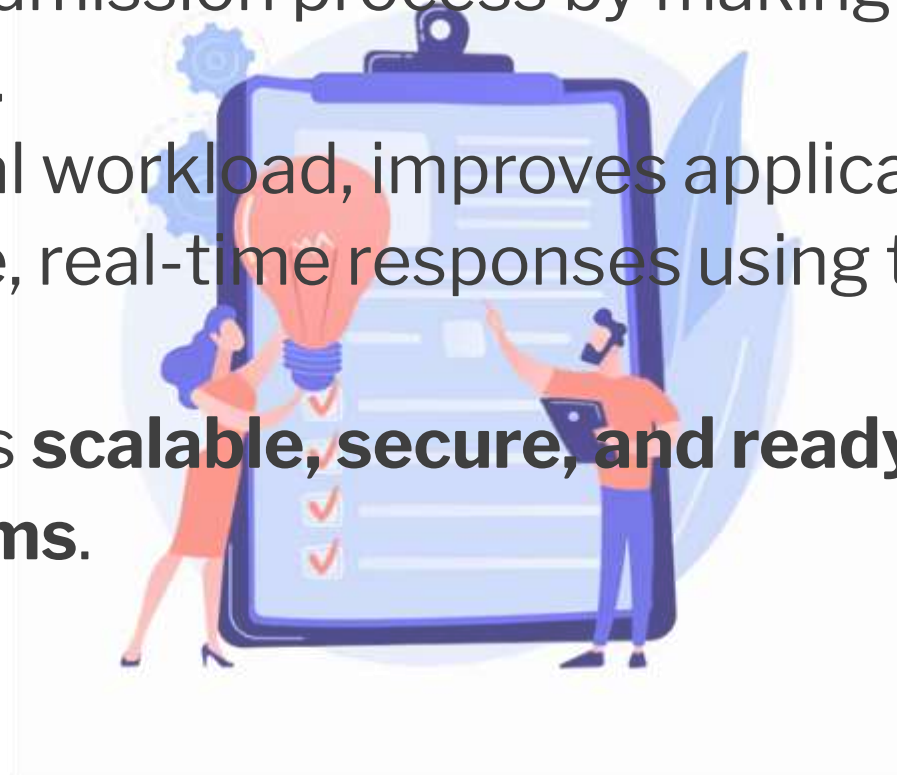
FUTURE SCOPE

- **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**

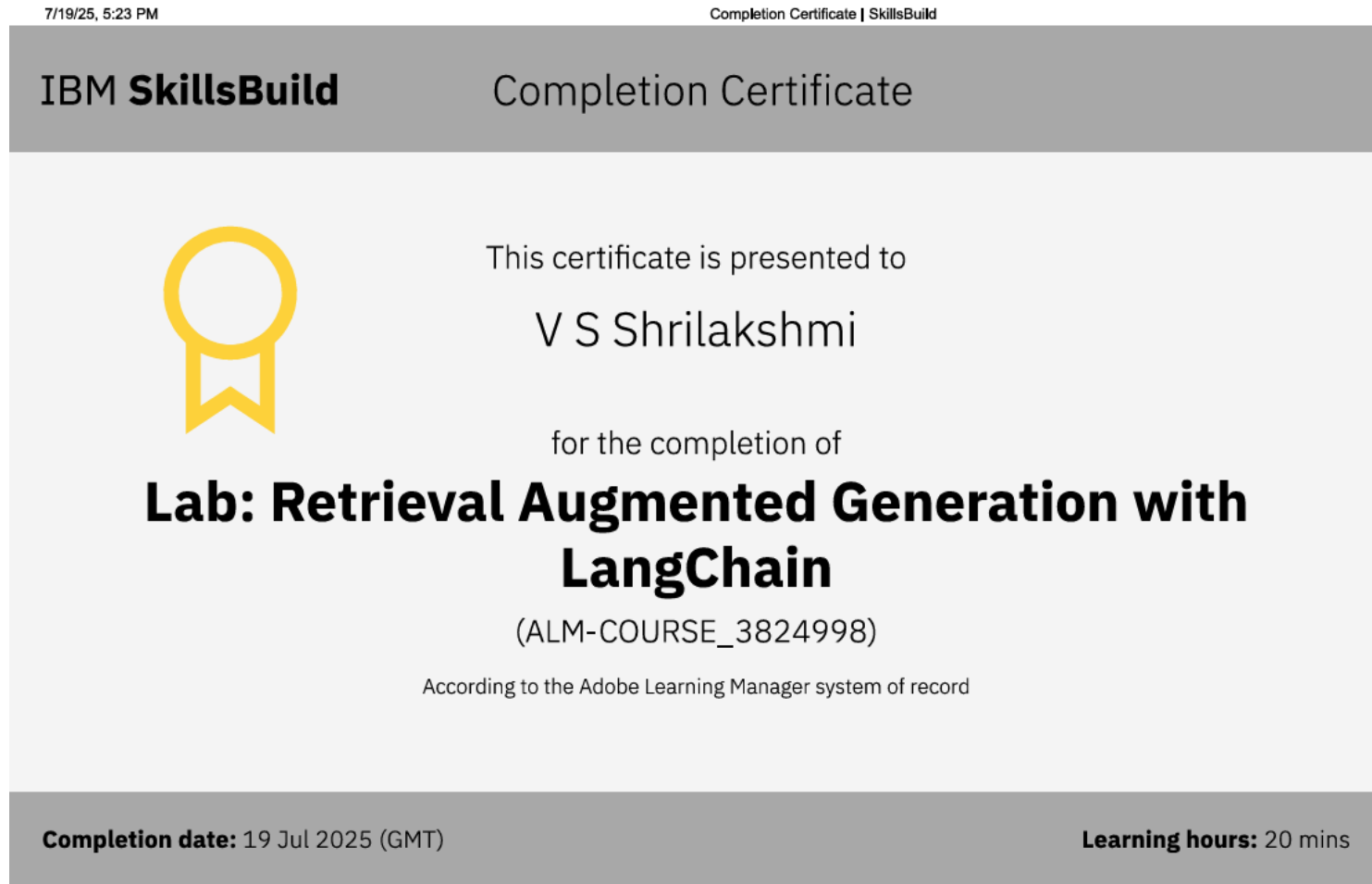Sync with existing college management systems.

IBM CERTIFICATIONS

➢ Getting Started with AI

In recognition of the commitment to achieve professional excellence

Getting Started with Artificial Intelligence
IBM SkillsBuild

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

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➤ Journey to cloud certificate

➤ RAG LAB certificate

GITHUB LINK

Github link :
https://github.com/Shrilakshmi248/College_Admission_AI_Agent.git

THANK YOU