

# CAPSTONE PROJECT

## Library Agent

**Presented By : Somesh Nema**

**Student name : Somesh Nema**

**College Name : Kalaniketan Polytechnic College, Jabalpur**

**Department : Computer Science And Engineering**

# OUTLINE

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

# Problem Statement

- AI library agents leverage AI and automation to enhance library services. They are used for tasks like automating responses to frequently asked questions, curating personalized reading recommendations, and assisting with tasks such as document summarization and research organization. These agents streamline library workflows, improve user experience, and free up librarians for more complex tasks.
- Enhancing User Experience
- Streamlining Library Operations
- Supporting Library Staff.

# TECHNOLOGY USED

- **IBM Cloud Lite Services** – Cloud platform used to build and deploy the AI agent
- **Watsonx.ai Studio** – For creating and managing the agent project
- **Granite**– Foundation language models used for conversation
- **Retrieval-Augmented Generation (RAG)** – For fetching context-relevant eco information.


# IBM cloud services used

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model.

# WOW FACTORS

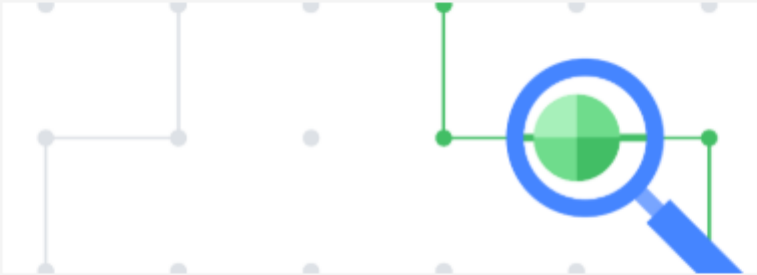
- Integration and Versatility
- Reasoning and Problem-Solving
- User Experience
- Real-World Applications

# RESULTS

 Library Agent 09:49 PM

## Welcome to Library Agent

Change this description to reflect your particular agent



# RESULTS

 You: 08:41 PM

I want to improve my spoken english recommend me some books and resources.

 Library Agent 08:41 PM

Based on the Wikipedia article, here are some book recommendations for improving spoken English:

1. "Fluent Forever: How to Learn Any Language Fast and Never Forget It" by Gabriel Wyner - This book provides a comprehensive guide to learning any language, including English, and offers practical tips and strategies for improving spoken English.
2. "The Language Instinct: How the Mind Creates Language" by Steven Pinker - This book explores the science of language and how it is acquired, and offers insights into the structure and use of English.
3. "English Grammar in Use" by Cambridge University Press - This book provides a thorough introduction to English grammar and offers practical exercises and examples to help improve spoken English.
4. "The Elements of Style" by William Strunk Jr. and E.B. White - This classic book on writing style offers guidance on how to use English effectively and avoid common errors.
5. "Pronunciation Power!" by Ann Cook - This book provides a comprehensive guide to improving pronunciation and offers practical exercises and tips for speaking English more clearly and confidently.

Additionally, here are some online resources that can help improve spoken English:

1. Duolingo - This popular language learning app offers a range of courses and exercises to help improve spoken English.
2. English Central - This website offers video lessons and exercises to help improve spoken English, including pronunciation and vocabulary.
3. BBC Learning English - This website offers a range of resources, including videos, podcasts, and articles, to help improve spoken English.
4. Coursera - This online learning platform offers a range of courses on English language and literature, including spoken English.
5. YouTube channels like English with Lucy, EnglishClass101, and Speak English with me offer a range of video lessons and exercises to help improve spoken English.

► How did I get this answer?

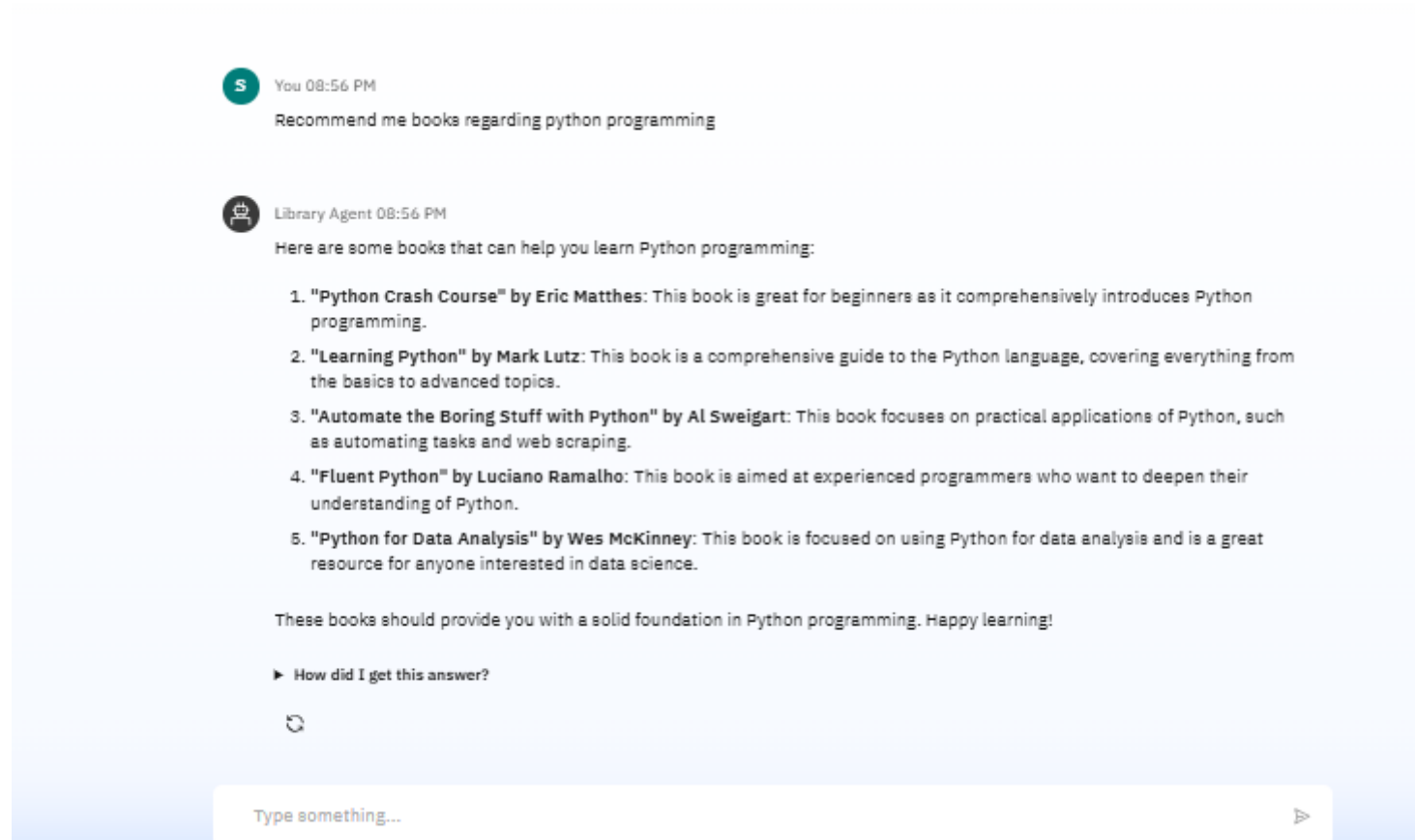
Type something...





# RESULTS

## DEPLOYED AI AGENT



# CONCLUSION

- Context
- Learn from interactions
- Handle a wider range of tasks
- Making them powerful allies in the digital workplace

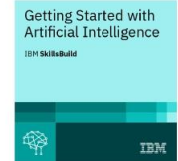
# FUTURE SCOPE

- Transforming every customer touchpoint from automated yet deeply human-sounding support calls to real-time personalization in eCommerce

# IBM Certifications

## CREDLY CERTIFICATE( GETTING STARTED WITH AI)

In recognition of the commitment to achieve  
professional excellence



# Somesh Nema

Has successfully satisfied the requirements for:

## Getting Started with Artificial Intelligence



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# IBM Certifications

## CREDLY CERTIFICATE (Journey to Cloud: Envisioning Your Solution)

In recognition of the commitment to achieve  
professional excellence



# Somesh Nema

Has successfully satisfied the requirements for:

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## Journey to Cloud: Envisioning Your Solution

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This certificate is presented to

Somesh Nema

for the completion of

**Lab: Retrieval Augmented Generation with  
LangChain**

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

**Completion date:** 21 Jul 2025 (GMT)

**Learning hours:** 20 mins

# GitHub Link

- Github link: <https://github.com/Someshnema/Library-Agent>

THANK YOU