

---

# **IBM AICTE PROJECT**

## **INTERVIEW TRAINER AI AGENT (PREPSAATHI)**

**Presented By : Pranav Rajesh Gaikwad**  
**Department : Artificial Intelligence And Data Science .**  
**College Name : K. K. Wagh Institute of Engineering , Education  
And Research , Nashik.**

# OUTLINE

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

---

# PROBLEM STATEMENT

**Problem Statement:** Job seekers struggle to find role-specific interview questions due to lack of tailored guidance for technical, HR, and behavioral prep and existing solutions are generic and don't leverage real-world company insights.

**Proposed Solution :** An AI-powered Interview Trainer Agent using Retrieval-Augmented Generation (RAG) & IBM Granite that Generates custom interview questions based on role & experience and provides model answers & improvement tips.

---

# TECHNOLOGY USED

- IBM Cloud Lite Services
- Retrieval-Augmented Generation (RAG)
- Natural Language Processing (NLP)
- IBM Granite LLM
- Lang Chain

---

## IBM CLOUD SERVICES USED

- IBM Watsonx.ai Studio
- IBM Watsonx.ai Runtime
- IBM Cloud Object Storage
- Watson Discovery
- Agent Lab

---

# WOW FACTORS

- **Personalized Interview Prep:** Generates tailored Q&A based on resume/job role.
- **Comprehensive Coverage:** Technical, HR, and behavioral questions with model answers.
- **Improvement:** Provides improvement tips.
- **Industry-Specific Prep:** Retrieves real-world company & role-specific content.

---

## END USERS

- **Job Seekers & Students** preparing for placements
- **Working Professionals** aiming for role transitions
- **Colleges & Career Centers** assisting students in interview preparation
- **Coaching Institutes** providing guided interview training

# RESULTS

The screenshot displays the IBM Watsonx Agent Lab interface. The top navigation bar includes the IBM Watsonx logo, an 'Upgrade' button, a help icon, a notification bell, the user's account 'Pranav Gaikwad's Account', the location 'Dallas', and a profile icon 'PG'. The breadcrumb trail shows 'Projects / Interview\_Trainer\_Agent / Agent Lab'. The main interface is split into two panels: 'Build' on the left and 'Agent preview' on the right.

**Build Panel:**

- Model:** llama-3-3-70b-instruct
- Setup:**
  - Name:** Interview\_Trainer\_Agent
  - Description:** Hey Buddy I will help you to prepare for interviews (51/100 characters)
  - Icon:** A placeholder image showing a robot head and a magnifying glass over a document.
  - Quick start questions:** Add up to 4 quick start questions that your users can select.

**Agent preview Panel:**

- Message 1:** You: 09:30 PM. Question: Which document do you have?
- Response 1:** Interview\_Trainer\_Agent 09:30 PM. Answer: The document is the knowledge base for an AI-powered Interview Trainer Agent, which contains role-specific technical questions, HR queries, behavioral scenarios, and industry guidelines for software developers and data analysts. A link 'How did I get this answer?' is provided.
- Message 2:** You: 09:32 PM. Question: What are HR Interview Questions?
- Response 2:** Interview\_Trainer\_Agent 09:32 PM. Answer: HR Interview Questions include:
  - Tell me about a time you resolved a conflict within a team.
  - Why do you want to work at our company?
  - What motivates you to perform well in your role?
  - How do you handle feedback from your manager?

The bottom of the screen shows a Windows taskbar with various application icons, a search bar, and system tray information including 'ENG IN', signal strength, and the date '31-07-2025'.

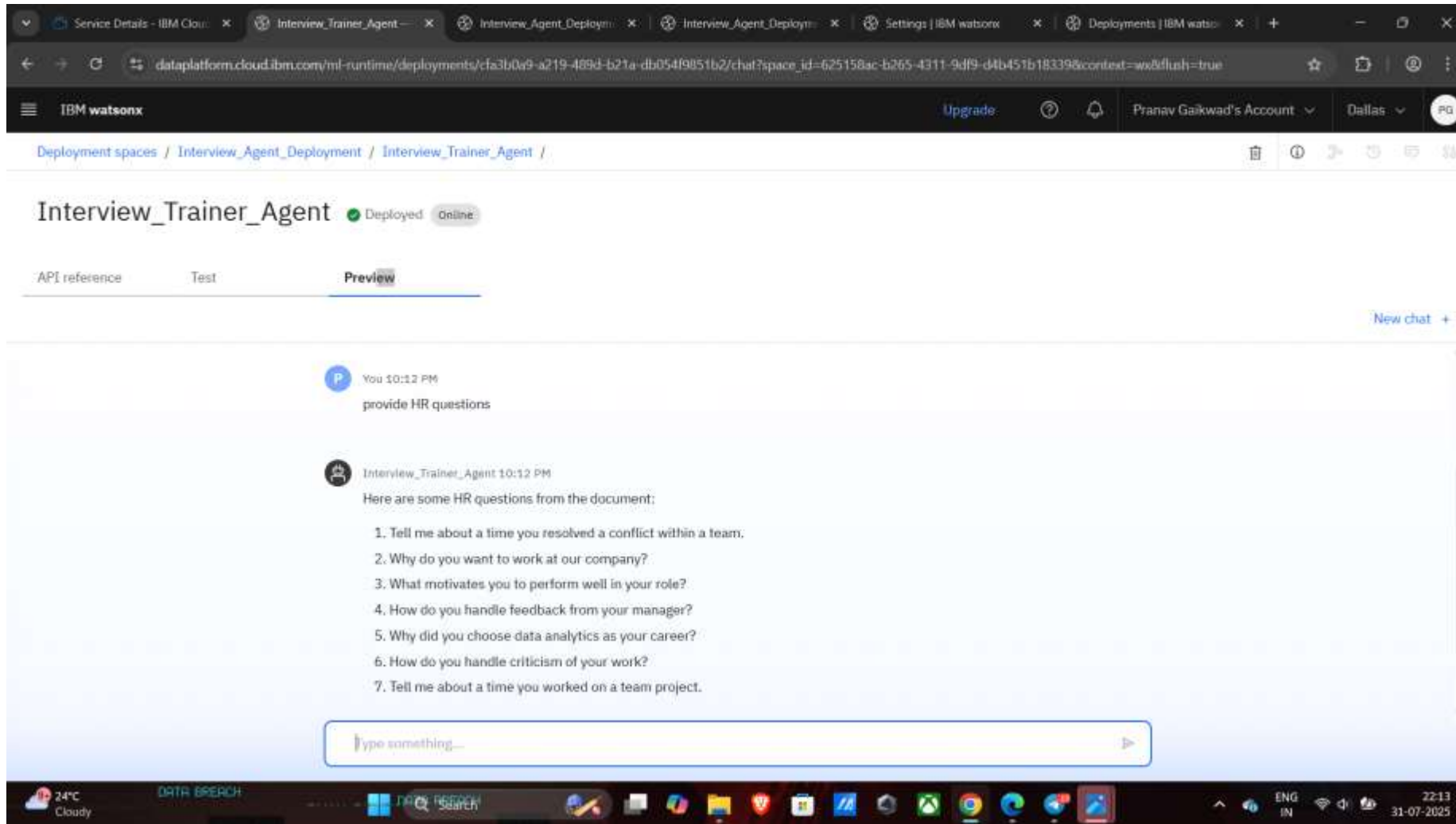


# RESULTS

The screenshot displays the IBM Watsonx web interface. The browser's address bar shows the URL: `dataplatfom.cloud.ibm.com/ml-runtime/spaces/625158ac-b265-4311-9d19-d4b451b18339/deployments?context=wx`. The page title is "Interview\_Agent\_Deployment". Below the title, there are tabs for "Overview", "Assets", "Deployments" (which is selected), "Jobs", and "Manage". A search bar is located above a table of deployments. The table has columns: Name, Type, Status, Asset, Asset type, Tags, and Last modified. One deployment is listed: "Interview\_Trainer\_Agent" with Type "Online", Status "Initializing", Asset "Interview\_Trainer\_Agent", Asset type "AI service", and Tags "wx-agent". The last modified time is "17 seconds ago" by "Pranav Galkwad (You)". At the bottom of the table, it says "Items per page: 20" and "1-1 of 1 items". The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating the date and time as 22:08 on 31-07-2025.

Name	Type	Status	Asset	Asset type	Tags	Last modified
Interview_Trainer_Agent	Online	Initializing	Interview_Trainer_Agent	AI service	wx-agent	17 seconds ago Pranav Galkwad (You)

## RESULTS



---

## CONCLUSION

The Interview Trainer Agent :

- Helps users prepare smarter with tailored Q&A & answers
- Leverages IBM Granite & RAG to provide realistic, role-based preparation

---

# FUTURE SCOPE

- Voice-based Mock Interviews with speech feedback
- Gamified preparation for engaging practice
- Company-specific Q&A sets
- Multilingual Support for wider accessibility

---

## GITHUB LINK

- GitHub Link:-[https://github.com/pranav0218/PrepSaathi-Interview\\_Agent](https://github.com/pranav0218/PrepSaathi-Interview_Agent)

# IBM CERTIFICATIONS



IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Pranav Gaikwad

for the completion of

**Lab: Retrieval Augmented Generation with  
LangChain**

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

**Completion date:** 20 Jul 2025 (GMT)

**Learning hours:** 20 mins

In recognition of the commitment to achieve  
professional excellence



Pranav Gaikwad

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



Issued on: Jul 20, 2025  
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/f8b0a340-3ca2-4b30-a7ec-dc4e40b5a932>







**THANK YOU**