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# **IBM HACKATHON PROJECT**

## **INTERVIEW TRAINER AI AGENT**

**Presented By: Shouvik Dutta**  
**College Name & Department : B.P Poddar Institute of Management and Technology.**  
**TECHNOLOGY: Computer Science and Engineering**

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# OUTLINE

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

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# PROBLEM STATEMENT

## **Challenge:**

Many job seekers struggle to prepare for interviews effectively due to limited access to tailored resources.

Existing tools often lack personalization, industry relevance, and real-time updates.

## **Proposed Solution:**

**An AI Interview Trainer Agent that uses NLP and RAG on IBM watsonx.ai to:**

Generate role-specific interview questions.

Provide model answers and improvement tips.

Retrieve latest industry-specific trends and expectations.

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# TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite Foundation model

# IBM CLOUD SERVICES USED

- IBM watsonx.ai Studio (Agent building & configuration).
- IBM Watsonx.ai runtime.
- IBM Cloud Object Storage (Lite plan).
- Agent Lab for asset creation & deployment .

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## WOW FACTORS

Personalized question sets based on user profile.

Model answers & improvement tips.

Real-time knowledge retrieval using integrated tools (Google, Wikipedia, DuckDuckGo).

Vector-indexed documents for deep domain-specific grounding.

Supportive, confidence-building feedback.

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## END USERS

- Job Seekers(freshers & experienced professionals).
- Career Counsellors & Training Institutes.
- Universities & Placements cells
- HR Teams conducting mock interviews.

# RESULTS

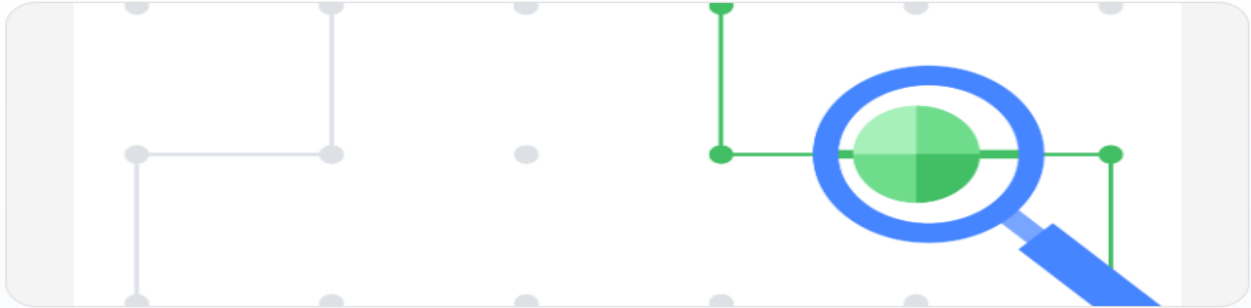
[Upgrade](#) [?](#) [🔔](#) Shouvik Dutta's Account [v](#) London [v](#) [SD](#)

[Share feedback](#) [β](#) [🟢](#) Autosaved 1:30 AM [📁](#) [v](#) [New agent +](#) [Deploy](#) [🔗](#) [🔒](#) [📄](#)

[<](#)

## Agent preview

AI assistant that preps users for interviews, boosts confidence, sharpens answers.



### Sample questions

Tips for a 3-year Frontend Developer interview. [→](#)

Common leadership behavioral questions for team leads. [→](#)

How to improve communication skills for sales interviews? [→](#)

Fresh graduate cybersecurity analyst interview questions? [→](#)

[🗨️](#) [➤](#)



# API REFERENCE AFTER DEPLOYMENT

IBM watsonx

Upgrade ?

Shouvik Dutta's Account

London

SD

Deployment spaces / Interview Trainer Agent / Interview Trainer Agent /

Interview Trainer Agent ✓ Deployed Online

API reference

Test

Preview

Endpoints for inferencing ⓘ

Private endpoint

https://eu-gb.ml.cloud.ibm.com/ml/v4/deployments/e441a2f8-37eb-4e72-a5e8-408b413b4a55/ai\_service?vers...

https://eu-gb.ml.cloud.ibm.com/ml/v4/deployments/e441a2f8-37eb-4e72-a5e8-408b413b4a55/ai\_service\_stre...

Public endpoint

https://eu-gb.ml.cloud.ibm.com/ml/v4/deployments/e441a2f8-37eb-4e72-a5e8-408b413b4a55/ai\_service?vers...

https://eu-gb.ml.cloud.ibm.com/ml/v4/deployments/e441a2f8-37eb-4e72-a5e8-408b413b4a55/ai\_service\_stre...

[Learn more](#) about the 2021-05-01 version query parameter

Code snippets

Bearer <token> ⓘ

IAM

About this deployment ×

Name ⓘ

Interview Trainer Agent

Description ⓘ

AI assistant that preps users for interviews, boosts confidence, sharpens answers.

Deployment Details

Deployment ID: e441a2f8-37eb-4e...

Serving name: ⓘ

No serving name.

Software specification: ⓘ

[runtime-24.1-py3.11](#) ⓘ

Hardware specification: ⓘ

Extra extra small: 1 CPU and 2 GB RAM

Copies: ⓘ

1

Tags ⓘ

wx-agent

Associated asset ⓘ

edunet  
foundation

# RESULTS

## Deployed AI Agent

IBM watsonx

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Interview Trainer Agent

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API reference

Test

Preview

New chat +

You 12:38 AM

Give me communication skill enhancement tips for a sales executive interview.

Interview Trainer Agent 12:38 AM

Here are some communication skill enhancement tips for a sales executive interview:

1. Practice active listening by paying attention to the interviewer and responding thoughtfully.

2. Use clear and concise language to articulate your thoughts and ideas.

3. Develop your presentation skills by practicing pitches and presentations in front of a mirror or with a friend.

4. Improve your nonverbal communication skills by maintaining eye contact, using positive body language, and dressing professionally.


5. Prepare examples of your sales experience and skills to share during the interview.



6. Use the STAR method to structure your answers, describing the situation, task, action, and result.


7. Show enthusiasm and passion for the sales industry and the company you are interviewing with.


Type something...


# RESULTS

 IBM watsonx

Upgrade

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London 

SD 

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API referenceTestPreview

New chat +

 You 12:18 AM

What leadership-related behavioral questions are commonly asked for a team lead position?

 Interview Trainer Agent 12:18 AM

Based on the search results, here are some common leadership-related behavioral questions that are asked for a team lead position:

1. What makes a good leader?
2. What's your ideal leadership style?
3. How do you measure the performance of your team?
4. How do you delegate tasks to team members?
5. Can you tell me about a time when you had to make a difficult decision as a leader?
6. How do you handle conflicts or disagreements within the team?
7. Can you describe a situation where you had to motivate a team member who was struggling?

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## CONCLUSION

- Reduces preparation time significantly.
- Boosts candidate confidence & performance.
- Scalable for universities, corporates, and training institutes.
- Can be enhanced with voice-based interactions.

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## GITHUB LINK

- <https://github.com/Shouvik-9/INTERVIEW-TRAINER-AI-AGENT-IBM-PROJECT.git>

# FUTURE SCOPE

- Multilingual Support
- Voice-based interactions.
- Real-Time Collaboration (group mock interviews).
- Research Gap and Novel Topic Identification
- Integration with LinkedIn& other job portals for tailored feedback.

# IBM CERTIFICATIONS



# IBM CERTIFICATIONS

In recognition of the commitment to achieve  
professional excellence



Shouvik Dutta

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



Issued on: Jul 17, 2025  
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/26875fb3-04ba-43b6-987d-afc7a1c6e0be>





# IBM CERTIFICATIONS

04/08/2025, 01:02

Completion Certificate | SkillsBuild

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Shouvik Dutta

for the completion of

**Lab: Retrieval Augmented Generation with  
LangChain**

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

**Completion date:** 18 Jul 2025 (GMT)

**Learning hours:** 20 mins



**THANK YOU**