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# IBM HACKATHON PROJECT

## INTERVIEW TRAINER AGENT

**Presented By:**

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**Information Technology Dept**

# OUTLINE

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

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# PROBLEM STATEMENT

An AI-powered Interview Trainer Agent uses Retrieval-Augmented Generation (RAG) to create **personalized interview questions, answers, and preparation tips** based on a user's **job role, experience, and profile**. It combines **technical and soft-skill assessments** with curated resources, helping candidates **build confidence, sharpen responses, and improve success rates** in competitive interviews..

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# TECHNOLOGY USED

- IBM Watsonx.ai – Building and deploying AI models
- IBM Granite Model – For contextual question generation
- IBM Agent Lab – For interactive agent creation
- Retrieval-Augmented Generation (RAG) – For dynamic content retrieval
- Cloud Object Storage – For project data management

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## IBM CLOUD SERVICES USED

- IBM Watsonx AI Studio
- IBM Watsonx AI Runtime
- IBM Cloud Agent Lab
- Granite Foundation Model

# WOW FACTORS

- Generates **role-specific** interview Q&A (technical, HR, behavioral)
- **Multi-turn conversations** like a real coach
- **Actionable preparation tips & resource links**
- Uses **RAG** for updated, context-aware content
- **Deployed as API** on IBM Cloud

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## END USERS

- Job Seekers
- Students preparing for campus placements
- Professionals preparing for career switches
- Interview training institutes

# RESULTS

Upgrade

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Share feedback β

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New agent +

Deploy 🚀

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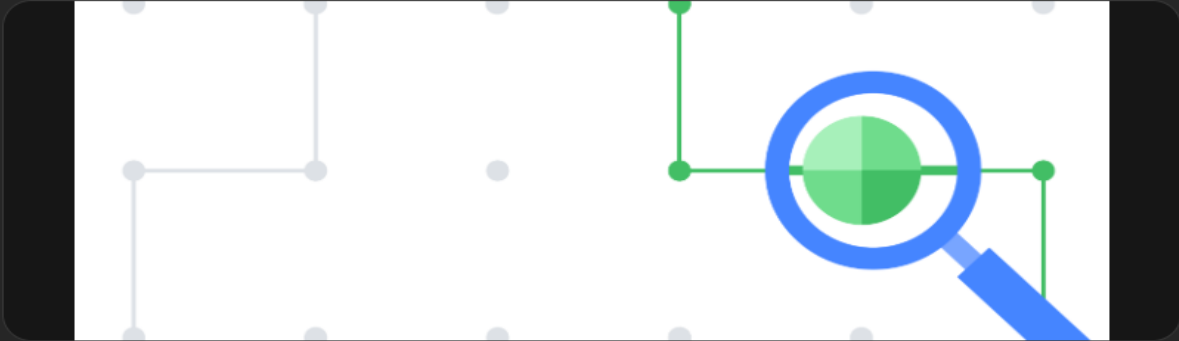
ⓘ

Agent preview

 INTERVIEW\_trainerAgent 10:31 AM

## Welcome to INTERVIEW\_trainerAgent


An AI agent that generates role-specific interview questions, answers, and tips for preparation.



Type something...

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10:32

01-08-2025



# RESULTS

Share feedback



Autosaved 10:56 AM



New agent +

Deploy



## Agent preview

and development.

3. **What are your strengths and weaknesses?** Answer: My strengths include my attention to detail, my ability to work well under pressure, and my strong communication skills. One area I'm working to improve is my public speaking skills, as I tend to be a bit introverted. However, I've been taking steps to become more comfortable speaking in front of groups, and I'm excited to continue developing this skill.
4. **Where do you see yourself in 5 years?** Answer: In 5 years, I envision myself as a lead developer or technical lead, responsible for guiding a team of engineers and contributing to the development of complex software systems. I'm excited about the opportunity to take on new challenges and continue learning and growing as a professional.
5. **Why are you leaving your current job (or why did you leave your previous job)?** Answer: I'm looking for new challenges and opportunities for growth, and I feel that my current role is not providing me with the level of challenge and responsibility that I'm looking for. I'm excited about the opportunity to join a new team and contribute to the development of innovative software solutions.

### TIPS:

1. Be honest and authentic in your responses.
2. Show enthusiasm and passion for the company and role.
3. Highlight your strengths and accomplishments.
4. Be prepared to talk about your weaknesses and areas for improvement.
5. Use the STAR method to structure your responses: Situation, Task, Action, Result.

### RESOURCES (with links):

1. [Glassdoor](#) - A website that provides information about companies, salaries, and interview questions.
2. [Indeed](#) - A website that provides job search tools, resume building resources, and interview preparation tips.
3. [LinkedIn](#) - A professional networking site that provides resources for job seekers, including interview preparation tips and career development advice.

Type something...



Upgrade



ABHISHEK GUNTUK's Acc...

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Share feedback



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New agent +

Deploy



## Agent preview

► How did I get this answer?

AG You: 10:55 AM

give5 common questions and answers for HR interview

INTERVIEW\_trainerAgent 10:55 AM

### QUESTIONS & ANSWERS:

Here are 5 common HR interview questions and answers:

1. **Can you tell me a little about yourself?** Answer: My name is Abhishek, and I have 2 years of experience as a Software Engineer. I have a strong passion for coding and problem-solving, and I'm excited about the opportunity to contribute to a new team. In my free time, I enjoy learning new technologies and participating in coding challenges.
2. **Why do you want to work for our company?** Answer: I've researched your company and am impressed by your mission and values. I'm excited about the opportunity to work with a talented team and contribute to the development of innovative software solutions. I'm also drawn to the company's commitment to employee growth and development.
3. **What are your strengths and weaknesses?** Answer: My strengths include my attention to detail, my ability to work well under pressure, and my strong communication skills. One area I'm working to improve is my public speaking skills, as I tend to be a bit introverted. However, I've been taking steps to become more comfortable speaking in front of groups, and I'm excited to continue developing this skill.
4. **Where do you see yourself in 5 years?** Answer: In 5 years, I envision myself as a lead developer or technical lead, responsible for guiding a team of engineers and contributing to the development of complex software systems. I'm excited about the opportunity to take on new challenges and continue learning and growing as a professional.
5. **Why are you leaving your current job (or why did you leave your previous job)?** Answer: I'm looking for new challenges and opportunities for growth, and I feel that my current role is not providing me with the level of challenge and responsibility that I'm looking for. I'm excited about the opportunity to join a new team and contribute to the development of innovative software solutions.

Type something...



# RESULTS

## Deployed AI Agent

← → ↺ [dataplatform.cloud.ibm.com/ml-runtime/deployments/e5bbfc9b-4216-424b-88c1-13ada11ea822/chat?space\\_id=72d010e6-728a-4b76-9b95-499f29f1da86&context=wx&flush=true](https://dataplatform.cloud.ibm.com/ml-runtime/deployments/e5bbfc9b-4216-424b-88c1-13ada11ea822/chat?space_id=72d010e6-728a-4b76-9b95-499f29f1da86&context=wx&flush=true)

IBM watsonx Upgrade ⓘ 🔔 ABHISHEK GUNTA

Deployment spaces / INTERVIEW\_trainerAgent / INTERVIEW\_trainerAgent /

### INTERVIEW\_trainerAgent ✔ Deployed Online

API reference Test **Preview** New chat +

**A** You 11:02 AM  
Give me 5 Python interview questions with answers and resources.

**INTERVIEW\_trainerAgent** 11:02 AM  
Here are five Python interview questions with answers and resources:

1. What is the difference between static typing and dynamic typing in Python? Answer: Static typing means that the data type of a variable is known at compile time, while dynamic typing means that the data type of a variable is determined at runtime. Python is dynamically typed. Resource: <https://www.geeksforgeeks.org/static-typing-vs-dynamic-typing/>
2. How do you handle errors and exceptions in Python? Answer: You can use try-except blocks to catch and handle exceptions in Python. The try block contains the code that might raise an exception, and the except block contains the code that will be executed if an exception is raised. Resource: <https://docs.python.org/3/tutorial/errors.html>
3. What is the difference between a list and a tuple in Python? Answer: A list is a mutable collection of items, while a tuple is an immutable collection of items. Lists are defined using square brackets [], while tuples are defined using parentheses (). Resource: <https://www.geeksforgeeks.org/lists-vs-tuples-in-python/>
4. How do you implement a dictionary in Python? Answer: A dictionary in Python is a mutable data type that stores mappings of unique keys to values. You can create a dictionary using the dict() function or by using curly brackets {}. Resource: <https://docs.python.org/3/tutorial/datastructures.html>
5. What is the purpose of the self parameter in a Python class? Answer: The self parameter is a reference to the current instance of the class and is used to access variables and methods from the class. Resource:

Type something...

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## CONCLUSION

- This AI agent **personalizes interview preparation**, saving time and improving confidence for candidates. It enables users to practice real-time interview Q&A and gain valuable tips tailored to their profiles.

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## GITHUB LINK

You can explore the full project code, documentation, and resources at:

**GitHub Repository:**

[https://github.com/abhi-guntuk22/Interview\\_Trainer\\_Agent](https://github.com/abhi-guntuk22/Interview_Trainer_Agent)

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# FUTURE SCOPE

- Voice-based interview simulation
- Multilingual support
- Integration with job portals
- Real-time mock interview feedback

# IBM CERTIFICATIONS

In recognition of the commitment to achieve  
professional excellence



## Abhishek Guntuk

Has successfully satisfied the requirements for:

### Getting Started with Artificial Intelligence



Issued on: Jul 18, 2025  
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/003b0d8c-78d2-4395-aff7-11a1687fa456>



IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Abhishek Guntuk

for the completion of

**Lab: Retrieval Augmented Generation with  
LangChain**

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

**Completion date:** 23 Jul 2025 (GMT)

**Learning hours:** 20 mins



**THANK YOU**