### **CAPSTONE PROJECT**

### **INTERVIEW TRAINER AGENT**

**Presented By:** 

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**Department: CSE** 



## **OUTLINE**

- Problem Statement
- Technology Used
- Wow Factor
- End Users
- Results
- Conclusion
- · GitHub Link
- Future Scope
- Certifications



# **PROBLEM STATEMENT**

- Many students and job seekers struggle with interview preparation due to a lack of personalized guidance, industry-specific questions, and confidence-building resources.
- They often rely on random internet material or outdated question banks that fail to simulate realworld interviews.
- Proposed Solution:
- An Al-powered Interview Trainer Agent that uses Natural Language Processing (NLP) and Retrieval-Augmented Generation (RAG) to provide customized interview questions, simulate mock interviews, and generate tailored preparation strategies based on user profiles.



# **TECHNOLOGY USED**

- OpenAl GPT (or Gemini, etc.)
- Retrieval-Augmented Generation (RAG)
- Node.js (Backend API)
- React / HTML-CSS (Frontend)
- MongoDB (User Profile Management)



# **WOW FACTOR**

This agent doesn't just give questions—it becomes a virtual interview coach. It autogenerates:

Role-specific technical and HR questions

- Behavioral assessments
- Suggested answers and evaluation
- Personalized study plan
- Confidence-building tips

All this based on your resume, job role, and experience level.

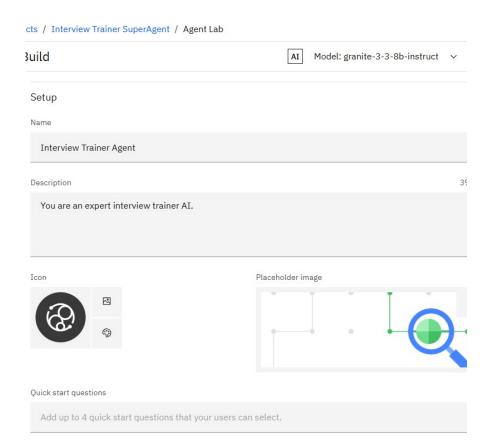


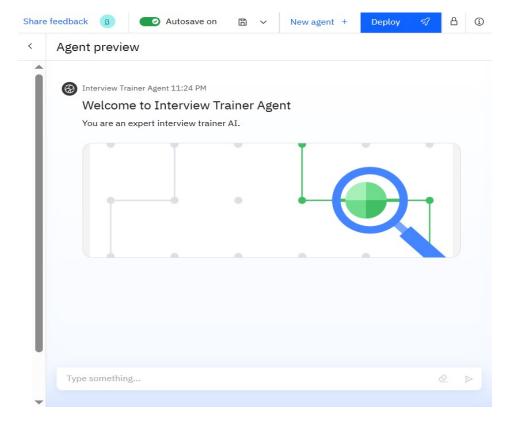
### **END USERS**

- Final year college students
- Freshers preparing for campus placements
- Professionals applying to new roles
- Interview mentors & trainers
- Hackathon participants
- EdTech platforms



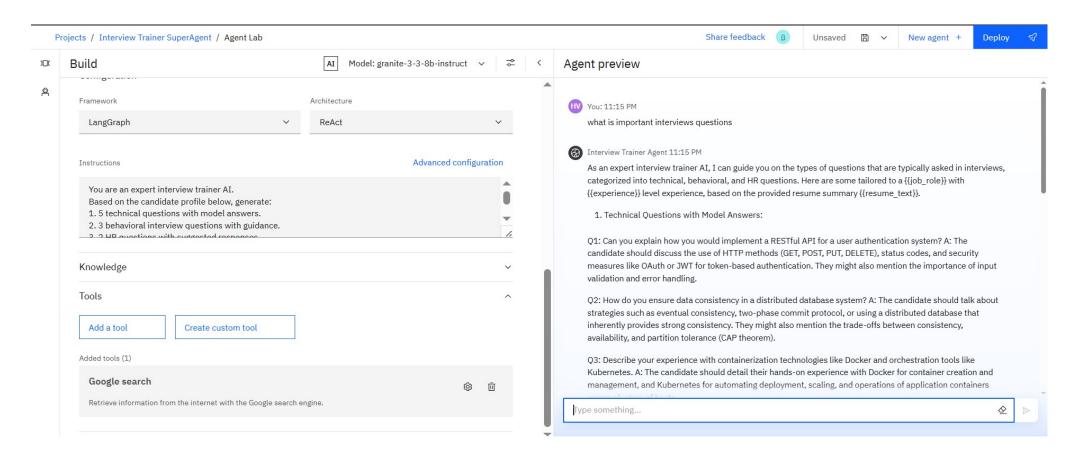
### **RESULTS**







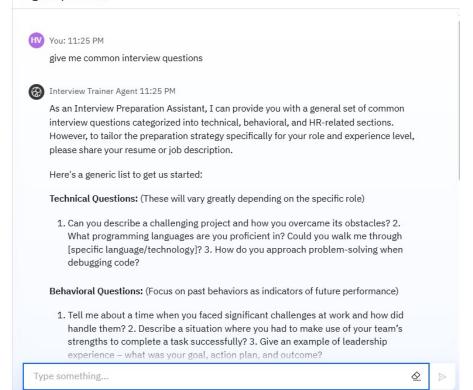
### **RESULTS**

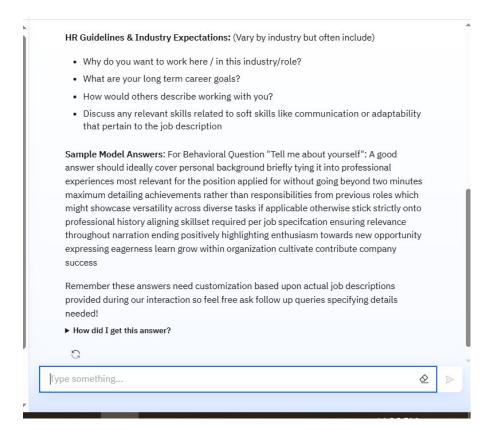




### **RESULTS**

### Agent preview







### **© CONCLUSION**

- The Interview Trainer Agent provides a unique blend of Al and domain knowledge to assist job seekers.
- It simulates realistic interviews, improves confidence, and gives structured preparation guidance.
- Highly scalable across multiple industries and user levels.



### **FUTURE SCOPE**

- Integration with voice-based Q&A (Mock speaking)
- Real-time facial expression analysis during mock tests
- Hindi and regional language support
- Company-specific interview simulations
- Dashboard for mentors/teachers to track student prep



### **IBM CERTIFICATIONS**

In recognition of the commitment to achieve professional excellence



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### **IBM CERTIFICATIONS**

### IBM SkillsBuild

### **Completion Certificate**



This certificate is presented to

Harsh Vishwakarma

for the completion of

# Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

Completion date: 24 Jul 2025 (GMT)

**Learning hours:** 20 mins



### **GITHUB LINK**

GitHub Link: https://github.com/Harshvish26/Interview\_Trainer\_Agent/



### **THANK YOU**

