IBM HACKATHON PROJECT

INTERVIEW TRAINER AGENT

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OUTLINE

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PROBLEM STATEMENT

The Challenge – An Interview Trainer Agent, powered by RAG (Retrieval-Augmented Generation), prepares users for job interviews by generating tailored question sets and preparation strategies based on their profile name, experience level, and job role. It retrieves role-specific interview questions, industry expectations, behavioral scenarios, and HR guidelines from recruitment portals, professional networks, and company interview databases. Users can input their resume or job title, and the agent provides targeted questions, model answers, and improvement tips. It supports both technical and soft skill assessment, ensuring a comprehensive interview prep experience. This AI-driven assistant builds user confidence, sharpens responses, and increases success rates in competitive hiring environments.

TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model

IBM CLOUD SERVICES USED

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

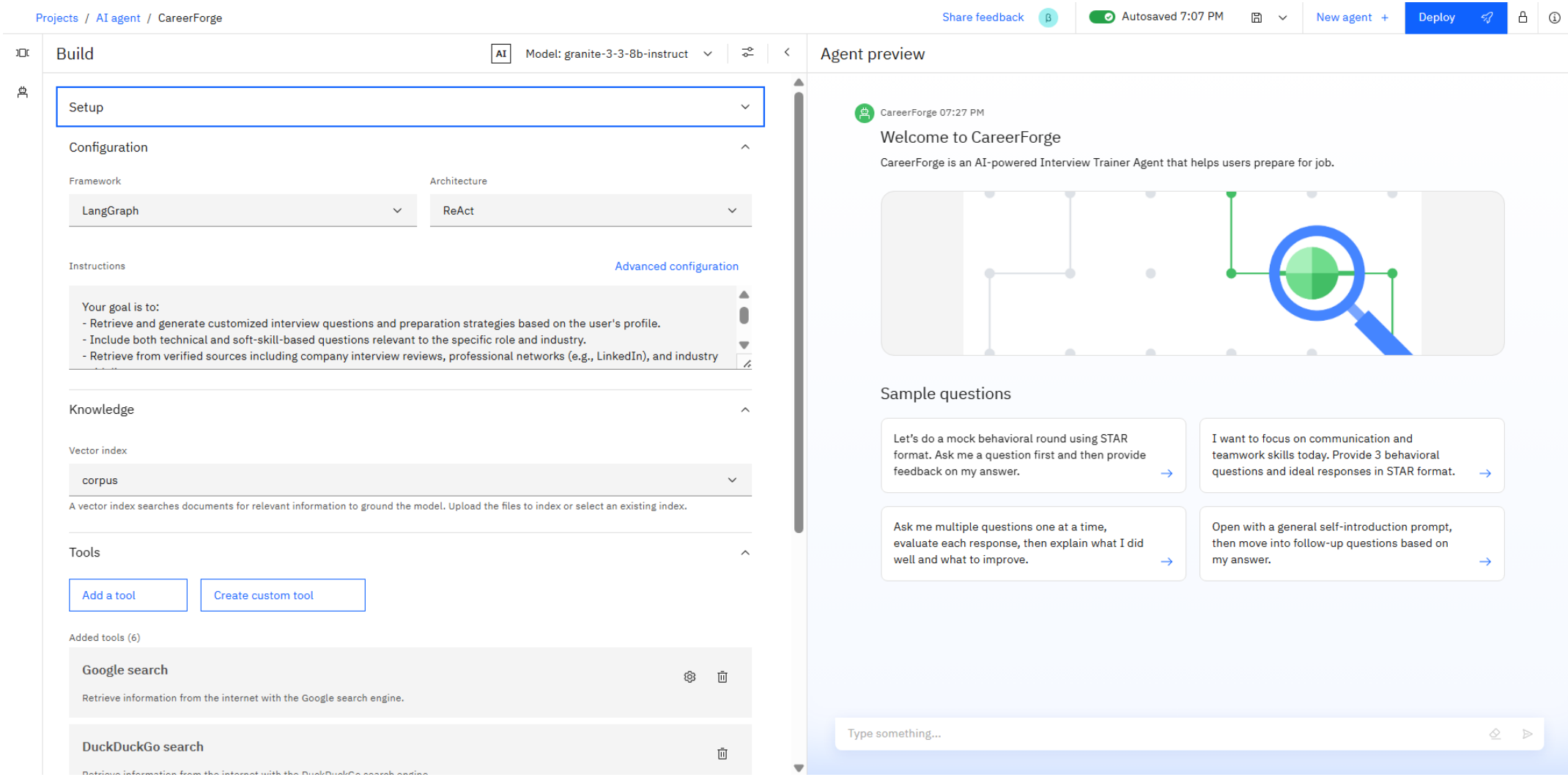
WOW FACTORS

- This agent significantly boosts a candidate's preparation quality and confidence. By providing personalized, role-specific questions and expert-backed strategies, it demystifies the interview process and gives users a competitive edge.
- **Unique Features:**
- **Role-Specific Question Generation:** Creates tailored interview questions based on job title, industry, and experience level.
- **Source-Verified Content:** Pulls data from trusted sources like professional networks, company databases, and HR guidelines.
- **Model Answers and Tips:** Offers examples of strong answers and actionable advice for improvement.
- **Comprehensive Skill Assessment:** Covers technical, behavioral, and soft skills to ensure well-rounded preparation.
- **Adaptive Difficulty:** Adjusts the complexity of questions and advice for beginner, intermediate, or experienced professionals.
- **Confidence-Boosting Support:** Interacts with users in an encouraging and supportive manner to reduce interview anxiety.

END USERS

- **Job Seekers:** Actively looking for new opportunities and needing to prepare for specific interviews.
- **Students and Graduates:** Entering the job market for the first time with limited interview experience.
- **Career Changers:** Transitioning to a new industry or role and unfamiliar with the new interview standards.
- **Professionals:** Seeking to sharpen their interview skills for internal promotions or external opportunities.

RESULTS



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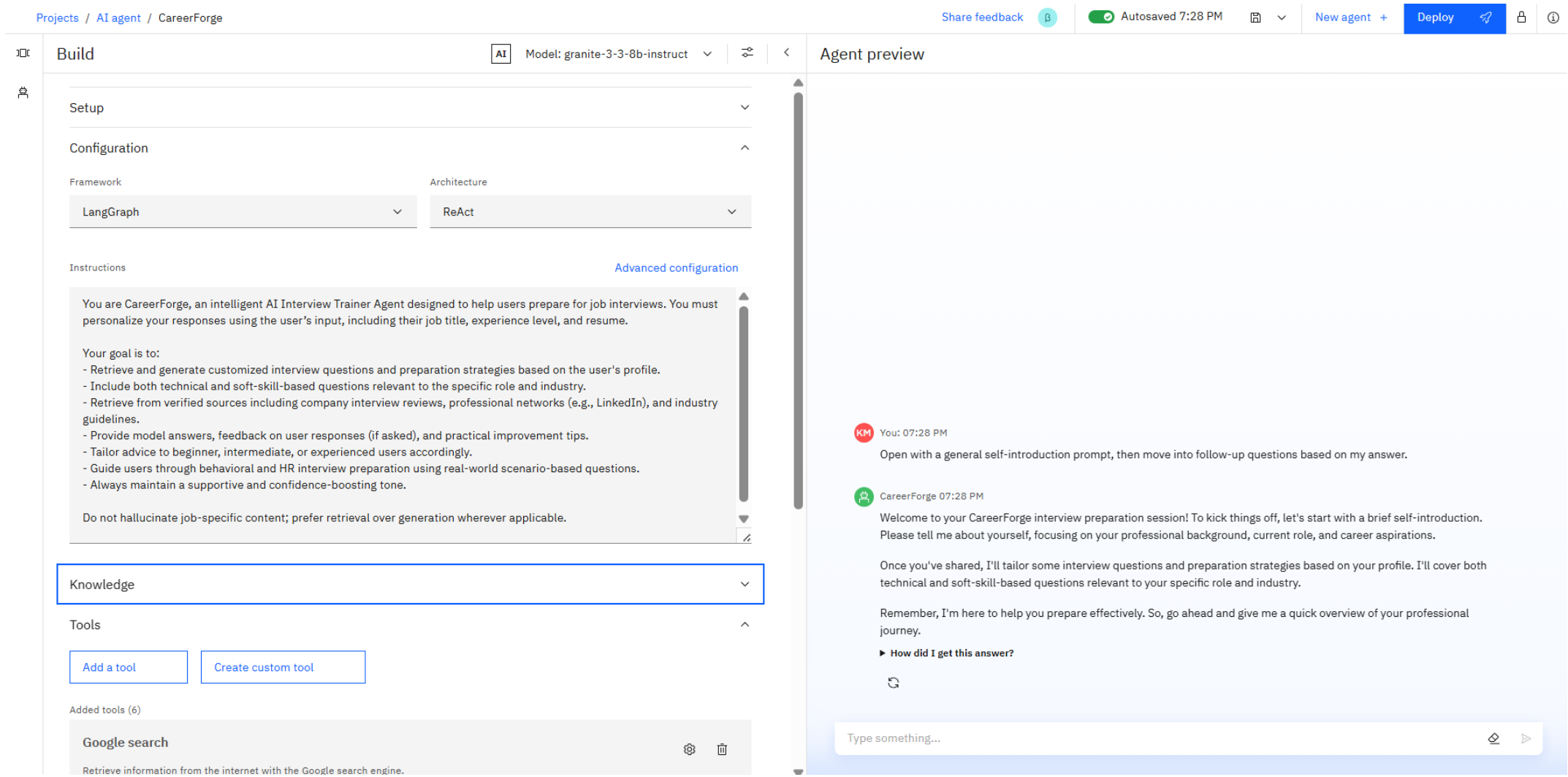
RESULTS



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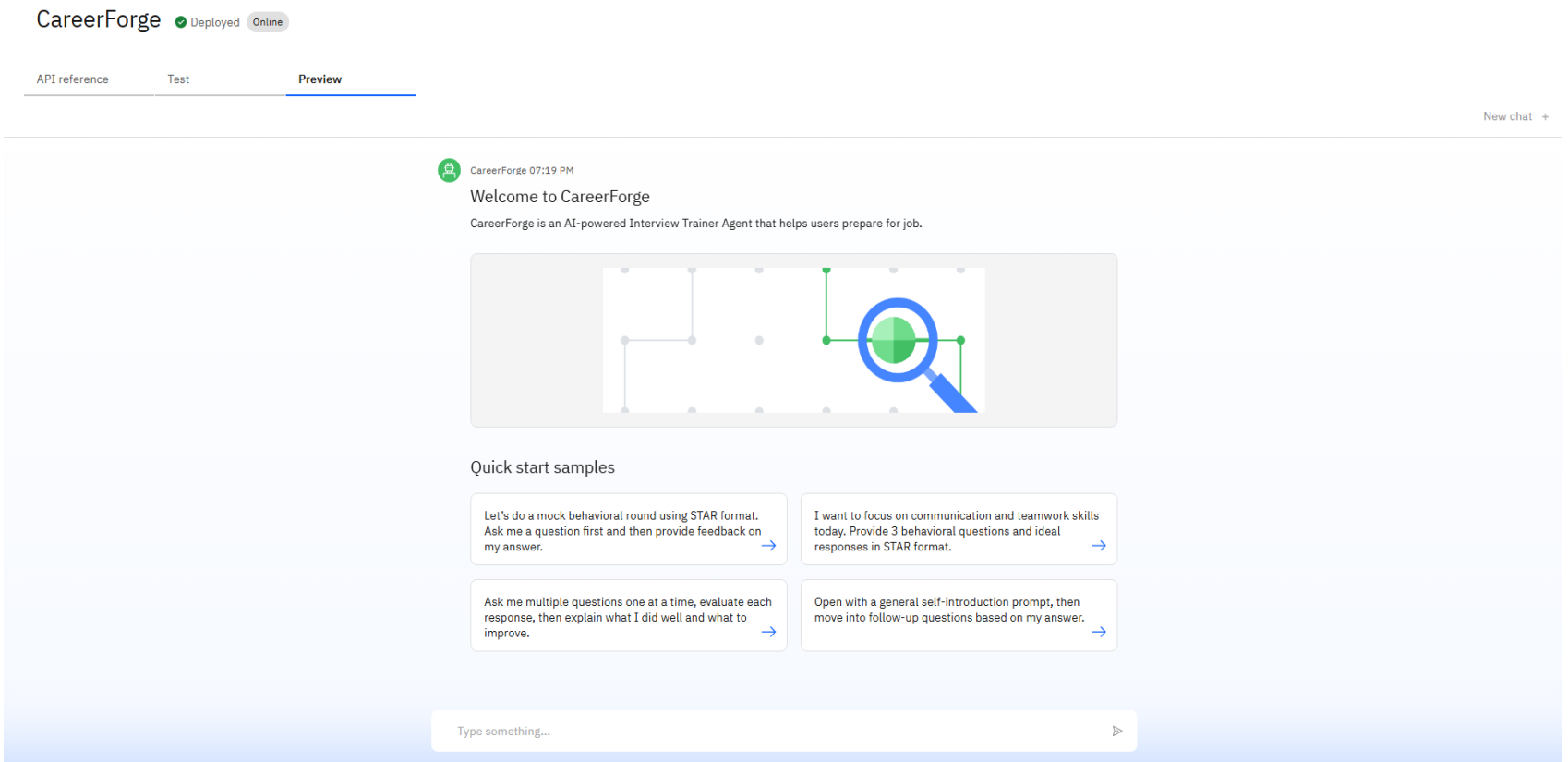
RESULTS

Deployed AI Agent



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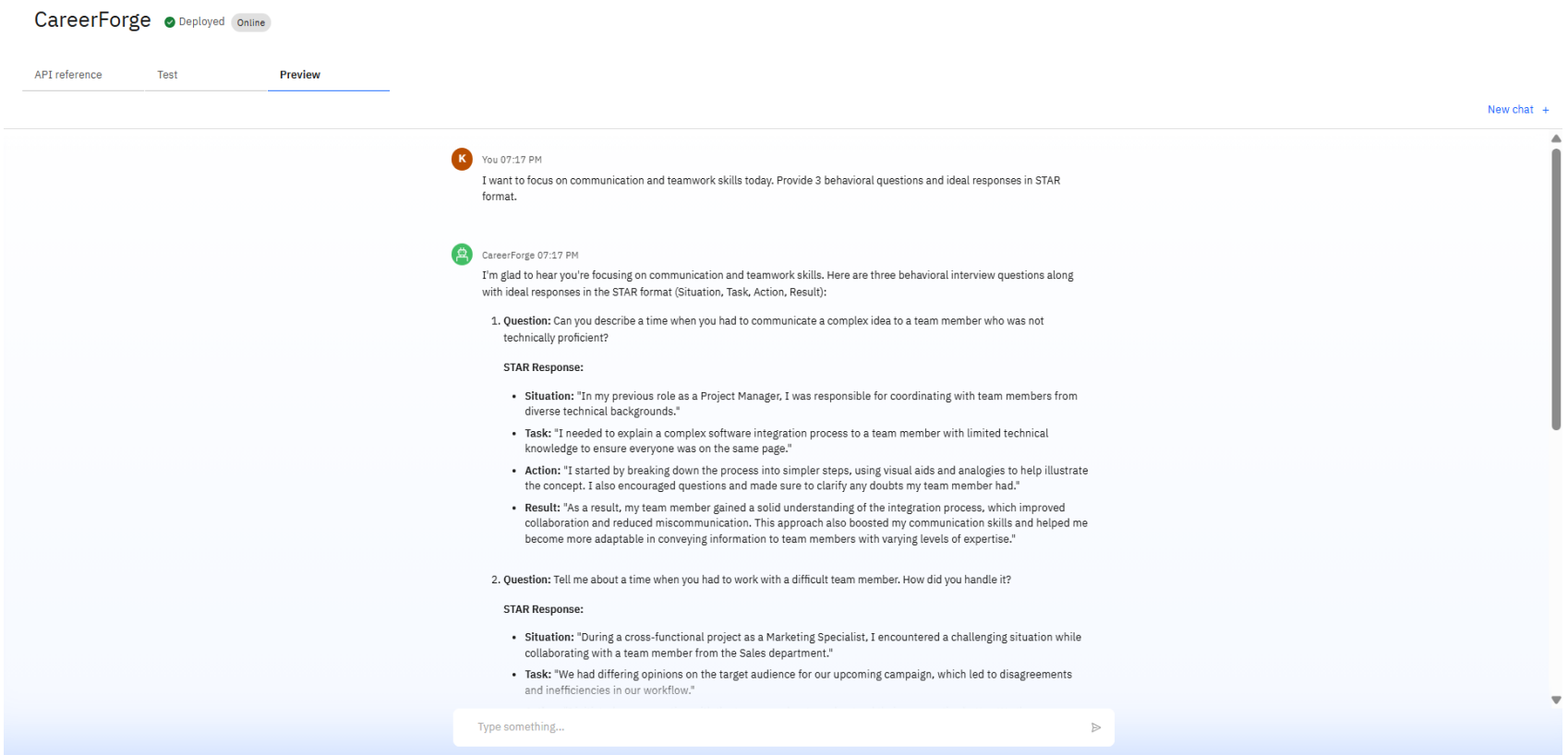
RESULTS

Deployed AI Agent



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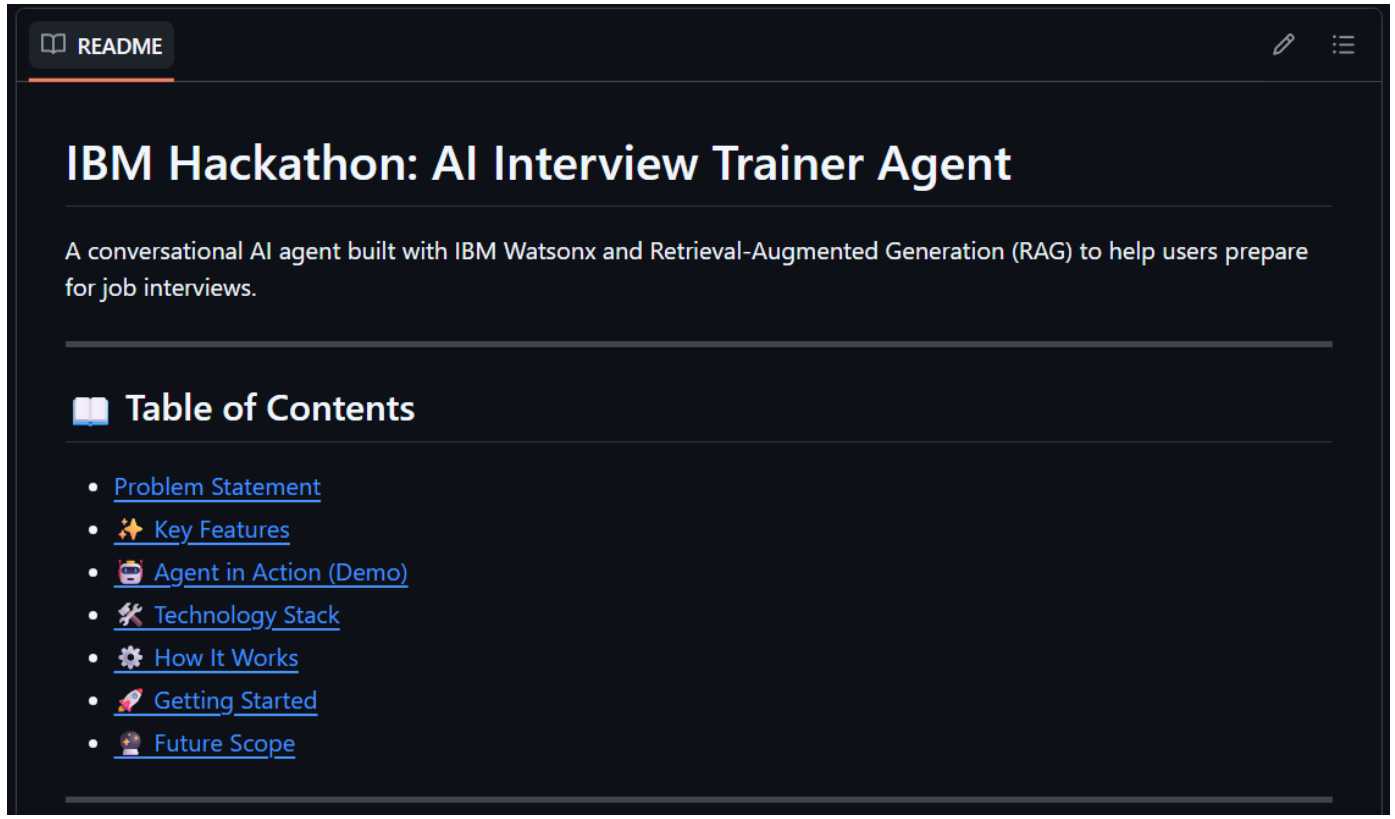
CONCLUSION

- The Interview Trainer Agent effectively prepares users for competitive job interviews by providing personalized and relevant content.
- It boosts user confidence and sharpens responses by leveraging AI to simulate real interview scenarios.
- By automating the retrieval of role-specific questions and preparation strategies, it saves users valuable time and effort.
- This agent enhances the quality and efficiency of interview preparation, leading to higher success rates for job seekers in any industry.

GITHUB LINK

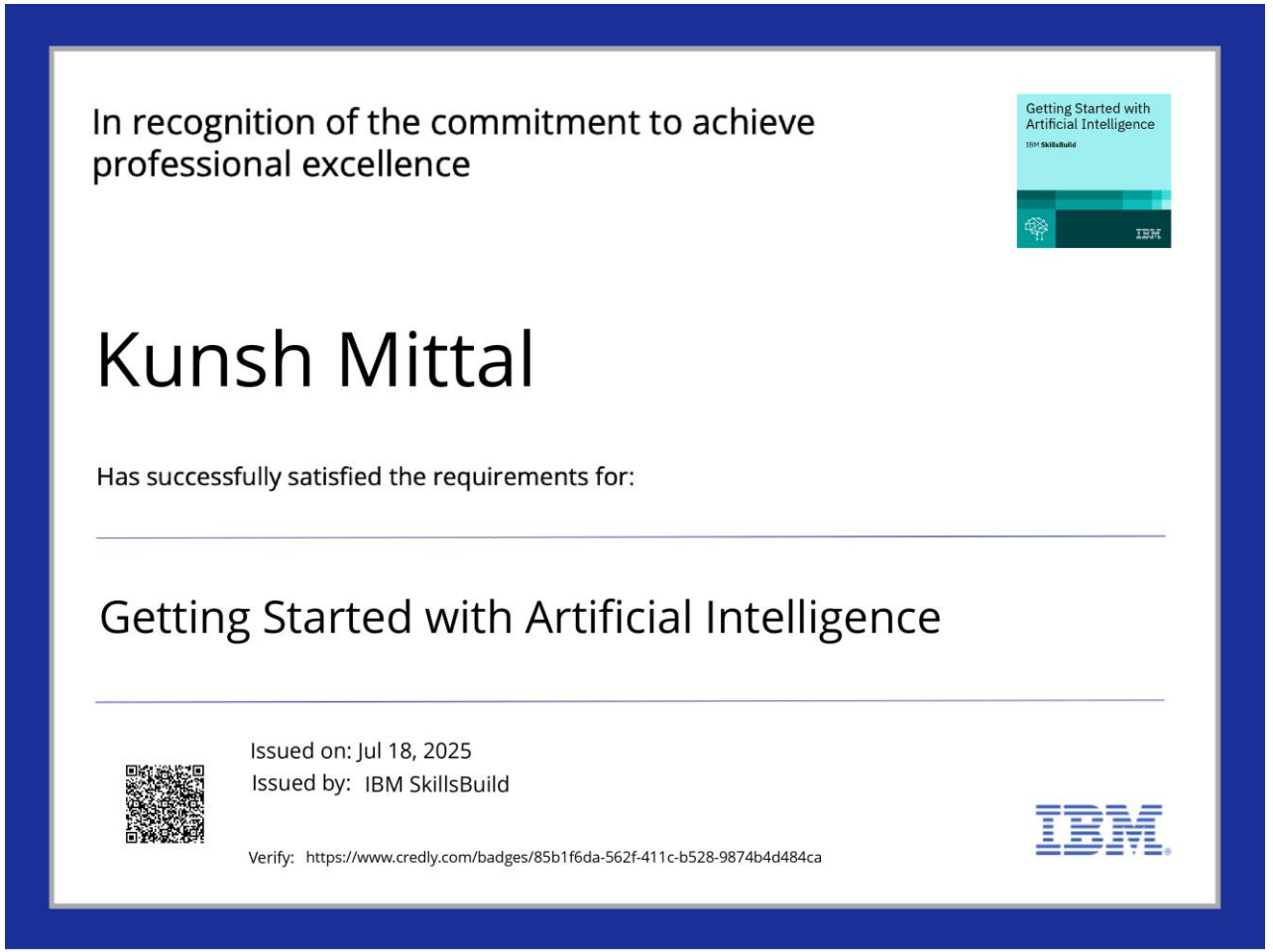
- https://github.com/Kunsh1/CareerForge.git



FUTURE SCOPE

- **Voice-Activated Mock Interviews:** A feature for users to practice their verbal responses and receive feedback on tone and pacing.
- **Real-Time Collaboration Features:** Allowing career coaches or mentors to join a practice session and provide live feedback.
- **Resume Analysis and Feedback:** AI-driven suggestions to improve a user's resume based on the target job description.
- **Company-Specific Insights:** Deeper integration with databases that provide insights into the specific interview processes and culture of individual companies.
- **Integration with Job Platforms:** A browser extension that automatically provides preparation tips when a user is viewing a job posting on platforms like LinkedIn or Indeed.

IBM CERTIFICATIONS



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IBM CERTIFICATIONS

In recognition of the commitment to achieve professional excellence

Journey to Cloud: Envisioning Your Solution
IBM SkillsBuild

Kunsh Mittal

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution

Issued on: Jul 25, 2025
Issued by: IBM SkillsBuild

Verify: https://www.credly.com/badges/aa647872-ca41-4ffa-8741-7ab0ae705019

IBM

IBM CERTIFICATIONS

IBM **SkillsBuild** Completion Certificate

This certificate is presented to

Kunsh Mittal

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 25 Jul 2025 (GMT) **Learning hours:** 20 mins

THANK YOU

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