IBM PROJECT

INTERVIEW PREP AI AGENT

- Presented By:
 - Student name : HARSHARAJ
 - College Name & Department : SMVITM ,ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



OUTLINE

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



PROBLEM STATEMENT

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



WOW FACTORS

This agent will significantly reduce interview preparation time, improve the quality of candidate responses, help job seekers at all experience levels gain confidence, and foster career growth by making interview knowledge more personalized and actionable.

Unique features:

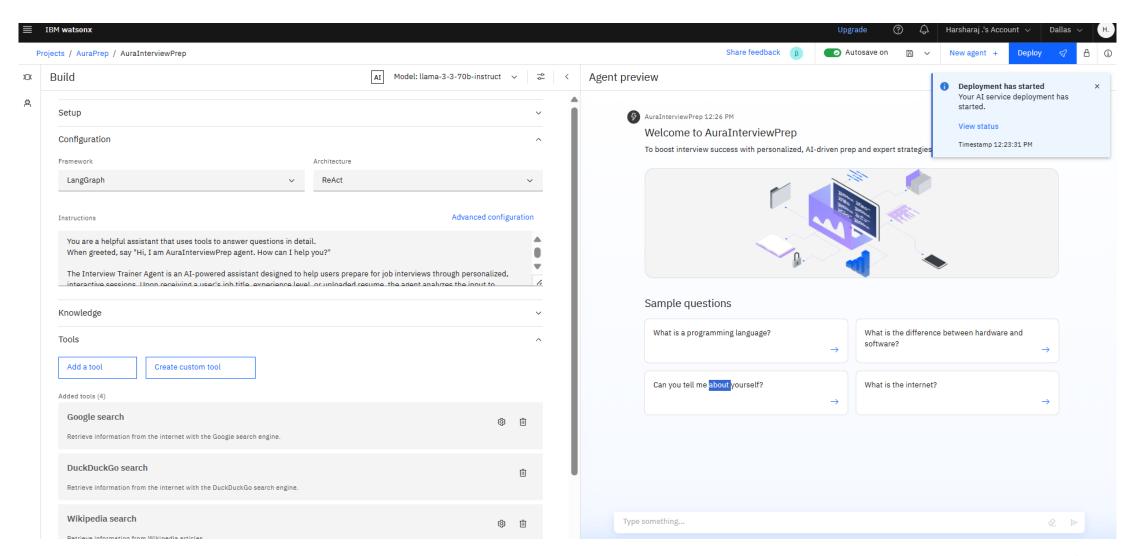
- Role-specific question retrieval from recruitment portals, professional networks, and company databases
- Customized question sets based on user profile, job role, experience level, and uploaded resume
- Auto-generation of model answers tailored to industry expectations and job-specific competencies
- Behavioral scenario simulations using STAR (Situation, Task, Action, Result) methodology
- HR and soft skills guideline integration, covering communication, teamwork, leadership, and more
- Technical skill assessment aligned with current job market requirements and technologies



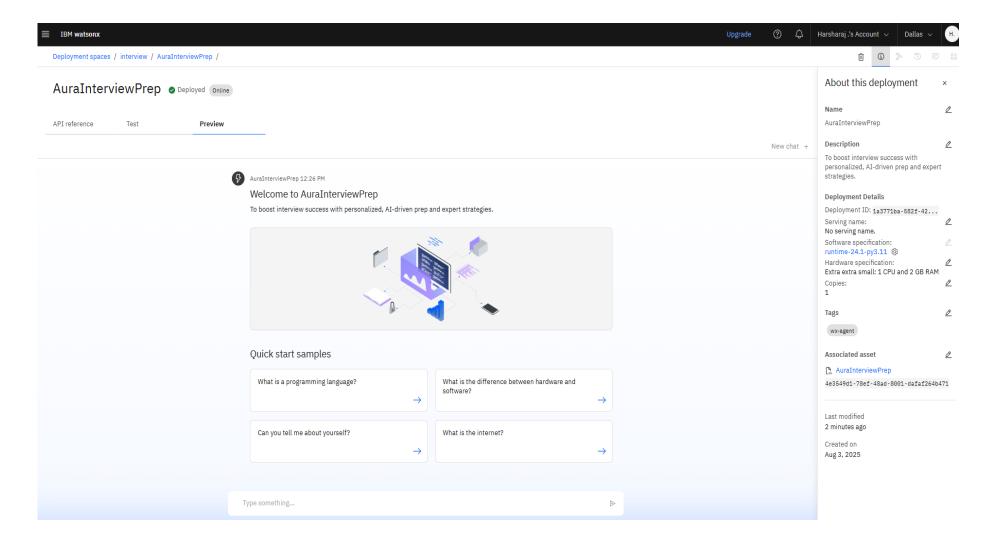
END USERS

- Job seekers (graduates, mid-career professionals, senior candidates)
- Career changers
- Students and interns
- Freelancers and gig workers
- Career coaches and mentors
- University career centers
- HR teams and recruiters
- Training and upskilling platforms

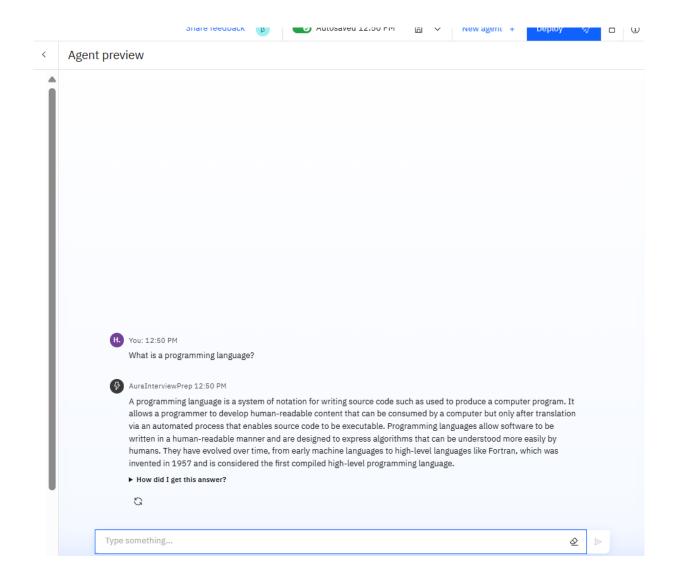






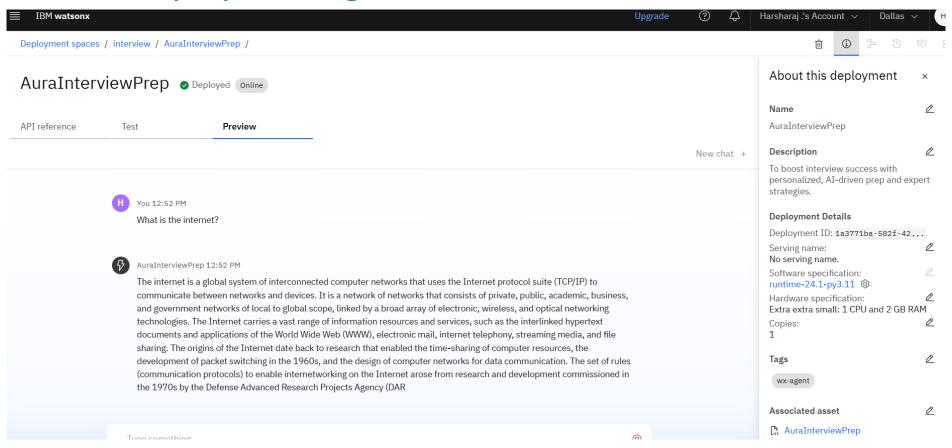








Deployed AI Agent





CONCLUSION

- Empowers users with personalized and role-specific interview preparation
- Enhances confidence and performance through targeted question-answer practice
- Supports both technical and soft skill development for well-rounded readiness
- Benefits a wide range of users, from students to experienced professionals
- Valuable for institutions like universities, HR teams, and training platforms
- Increases success rates in competitive hiring processes through AI-driven guidance



GITHUB LINK

git@github.com:HarsharajJ/ibm.git



FUTURE SCOPE

- Mock Interview Mode (Voice/Video) for realistic, real-time simulation
- Multilingual Support to prepare users for global job markets
- Persona-based Interview Simulation (e.g., HR, technical lead, casual manager)
- Resume Analyzer & Optimizer with ATS compatibility checks
- Gamified Learning Paths for motivation and engagement



IBM CERTIFICATIONS



Getting Started with Artificial Intelligence





Journey to Cloud: Envisioning your Solution



IBM SkillsBuild

Completion Certificate



This certificate is presented to

Harsharaj.

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

Lab: Retrieval Augmented Generation with Langchain



THANK YOU

