
IBM Watsonx.ai Project

INTERVIEW TRAINER AGENT

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For Women – Computer Science And Engineering**

OUTLINE

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

PROBLEM STATEMENT

- Job seekers often feel unprepared for interviews because they don't know:
- What types of questions will be asked
- What kind of answers interviewers expect
- How to build confidence and improve soft skills
- Even experienced candidates struggle to tailor their preparation based on different job roles, companies, or levels of experience.

TECHNOLOGY USED

- IBM Cloud (Lite Services)
- IBM Watsonx.ai Runtime
- Retrieval-Augmented Generation (RAG)
- Vector Indexing
- IBM Granite

IBM CLOUD SERVICES USED

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

WOW FACTORS

- Personalized Q&A based on job title (e.g. “Java Developer – Fresher”)
- Pulls content from uploaded docs like InterviewTips, RoleQnA, etc.
- Can behave like a chatbot for live practice
- Offers both technical and behavioral questions
- Uses IBM’s Granite model for real-time, contextual answers
- Auto-generates suggestions for improvement

END USERS

- Freshers applying for internships and jobs
- Final year students preparing for campus placements
- Professionals switching domains (e.g. from Testing to DevOps)
- Training institutes and interview coaching centers

RESULTS

The screenshot displays the IBM watsonx Agent Lab interface. The browser address bar shows the URL: `au-syd.dai.cloud.ibm.com/wx/agents?context=wx&project_id=3df6b504-58c9-42ec-a0ea-132f9dc4f023`. The page header includes the IBM watsonx logo, an 'Upgrade' button, a user profile for 'Karthika Bondalapati's Ac...', and location settings for 'Sydney'. The main navigation bar shows 'Projects / InterviewTrainerAgent / Agent Lab' and buttons for 'Share feedback', 'Unsaved', 'New agent +', and 'Deploy'.

The interface is divided into two main sections: 'Build' and 'Agent preview'.

Build Section:

- Configuration:** Includes a 'Framework' dropdown set to 'LangGraph' and an 'Architecture' dropdown set to 'ReAct'.
- Instructions:** A text area containing the instruction: "You are a helpful assistant that uses tools to answer questions in detail. When greeted, say 'Hi, I am watsonx.ai agent. How can I help you?'". A link for 'Advanced configuration' is visible.
- Knowledge:** Includes a 'Vector index' dropdown set to 'Trainer agent for interview'. A note states: "A vector index searches documents for relevant information to ground the model. Upload the files to index or select an existing index."
- Tools:** A section for defining tools, currently empty.

Agent preview Section:

- Shows a chat window with a message from 'watsonx Agent 05:47 PM': "Welcome to watsonx Agent. Change this description to reflect your particular agent".
- Below the message is a diagram of a graph-based agent architecture with a magnifying glass icon.
- A text input field at the bottom says "Type something..." with a send button.

The Windows taskbar at the bottom shows the date as 03-08-2025, time as 17:48, and weather as 31°C Partly sunny.

RESULTS

The screenshot displays the IBM watsonx Agent Lab interface. The top navigation bar includes the IBM watsonx logo, an 'Upgrade' button, a user profile for 'Karthika Bondalapati's Ac...', and location settings for 'Sydney'. The main interface is divided into two panels: 'Build' on the left and 'Agent preview' on the right.

Build Panel:

- Setup:** Includes a dropdown for 'Model: mistral-large'.
- Configuration:**
 - Framework:** A dropdown menu currently showing 'LangGraph'.
 - Architecture:** A dropdown menu currently showing 'ReAct'.
 - Instructions:** A text area containing the instruction: 'You are a helpful assistant that uses tools to answer questions in detail.' A link for 'Advanced configuration' is visible.
 - Knowledge:** A section with a 'Vector index' dropdown showing 'Trainer agent for interview' and a 'Clear chat' button. A note below states: 'If you want to add a vector index to the agent, clear the agent preview chat.'
 - Tools:** A section at the bottom of the configuration panel.

Agent preview Panel:

- Shows a chat history with two messages:
 - User:** 'I'm a fresher software developer. Ask me 3 technical questions.'
 - watsonx Agent:** 'Here are 3 technical questions for a fresher software developer:
 - 1. What are the four pillars of OOP?
 - 2. Explain the difference between Java and Python.
 - 3. What is a data structure? Name some types.'
- Below the chat history is a 'How did I get this answer?' section with a refresh icon.
- At the bottom is a text input field with the placeholder 'Type something...' and a send button.

RESULTS

The screenshot displays the IBM watsonx Agent Lab interface. The top navigation bar includes the IBM watsonx logo, an 'Upgrade' button, a user profile for 'Karthika Bondalapati's Ac...', location 'Sydney', and a 'KB' icon. The main header shows the project path 'Projects / InterviewTrainerAgent / Agent Lab' and buttons for 'Share feedback', 'Unsaved', 'New agent', and 'Deploy'.

The 'Build' section on the left contains the following components:

- Model:** mistral-large
- Framework:** LangGraph
- Architecture:** ReAct
- Instructions:** You are a helpful assistant that uses tools to answer questions in detail.
- Knowledge:** A vector index containing 'Trainer agent for interview'.
- Tools:** (Section header)

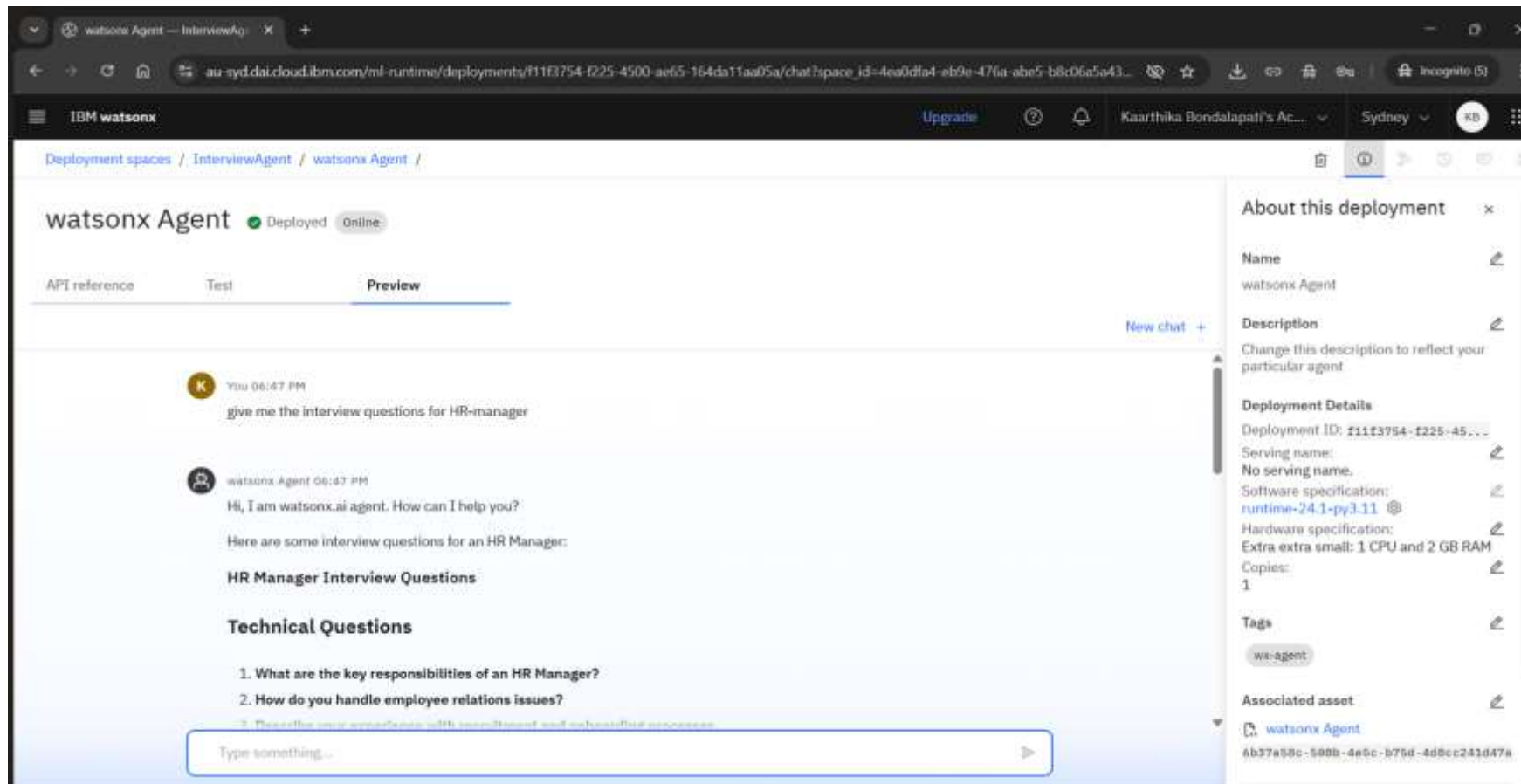
The 'Agent preview' section on the right shows a chat history:

- User:** You: 05:58 PM
What should I include in my self-introduction for an interview?
- Agent:** watsonx Agent 05:58 PM
What to Include in Your Self-Introduction for an Interview
A well-crafted self-introduction can set the tone for the rest of your interview. Here are some key elements to include:
 - 1. Greeting and Introduction**
 - Start with a polite greeting and introduce yourself by name.
 - Example: "Good morning/afternoon, I'm [Your Name]."
 - 2. Educational Background**
 - Mention your highest degree and the institution you attended.
 - Example: "I recently graduated with a Bachelor's degree in Computer Science from [University Name]."
 - 3. Professional Experience**

The chat input field at the bottom is labeled 'Type something...'.

RESULTS

Deployed AI Agent



CONCLUSION

- The Interview Trainer Agent uses IBM Watsonx.ai and RAG to help users prepare for interviews by answering HR, technical, and resume-related queries. It offers smart, real-time support through a vector-based knowledge system deployed on IBM Cloud.

FUTURE SCOPE

- Add voice-based interaction for a more natural experience
- Provide personalized feedback based on user responses
- Integrate real-time job market trends and data
- Support multiple languages for wider accessibility
- Include mock interview simulations using advanced AI
- Track user progress and suggest improvement areas
- Enable integration with resume-building and job portals

IBM CERTIFICATIONS

In recognition of the commitment to achieve
professional excellence



kaarthika bondalapati

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 15, 2025
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/f91381af-9016-4990-af76-107bd968d518>



7/24/25, 8:02 PM

Completion Certificate | SkillsBuild

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Completion Certificate



This certificate is presented to
kaarthika bondalapati

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



THANK YOU