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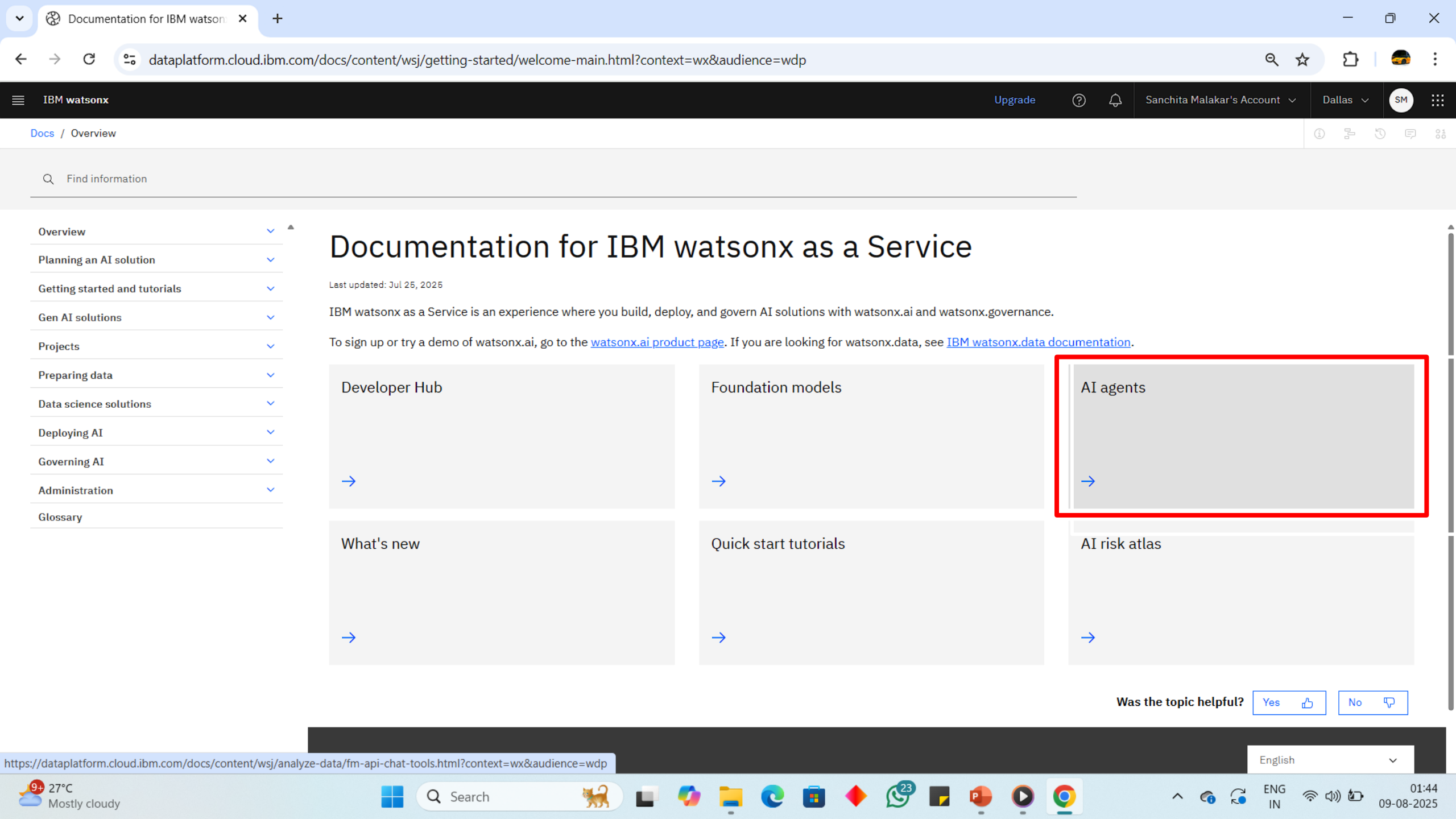
Planned maintenance

Total emissions

27°C

Mostly cloudy

09-08-2025



# Documentation for IBM watsonx as a Service

Last updated: Jul 25, 2025

IBM watsonx as a Service is an experience where you build, deploy, and govern AI solutions with watsonx.ai and watsonx.governance.

To sign up or try a demo of watsonx.ai, go to the [watsonx.ai product page](#). If you are looking for watsonx.data, see [IBM watsonx.data documentation](#).

Developer Hub



Foundation models



AI agents



What's new



Quick start tutorials



AI risk atlas



Was the topic helpful?

Yes



No



Overview

Planning an AI solution

Getting started and tutorials

Gen AI solutions

Terms of use

Tokens

Supported foundation models

Building prompts

Automating tasks with AI agents

Agent Lab (beta)

Agent-driven chat

Coding generative AI solutions

Retrieval-augmented generation

Tuning models

Projects

Preparing data

Data science solutions

Deploying AI

Governing AI

Administration

Glossary

To build an AI agent, complete the following steps:

1. From the [watsonx.ai home page](#), choose a project, and then click the **New asset > Build an AI agent to automate tasks** tile.

2. Select a foundation model and optionally update model parameters. For details, see [Foundation model configuration](#).

3. To set up your agent, specify a name for the agent and describe the tasks the agent performs.

Optional: Add some sample questions that the user can submit to start interacting with the agent.

4. Optional: Select an icon and background image to customize how your agent appears in the **Agent Preview** pane.

5. Select the AI agent framework you want to use to create, deploy and, manage your agent.

Note: Currently, watsonx.ai offers LangGraph as the only framework choice.

6. Select the architecture that implements agentic AI reasoning.

Note: Currently, watsonx.ai offers ReAct as the only architecture choice.

7. Define specific instructions for your agent that is used to enhance the system prompt for the foundation model. The instructions can include using a specific language, date or time format, u

Open in: my interview agent ▾

Customize my journey 

$$[\dots]$$

## Chat and build prompts with foundation models

Start chatting...

[Open Prompt Lab](#)



## Build an AI agent to automate tasks

with Agent Lab 

AI

○ ○

Tune a foundation model with labeled data

with Tuning Studio

Collapse ^

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my interview agent

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## Projects

 $\updownarrow +$ 

my interview agent

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1Interview agent

1 d ago

## Deployment spaces

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Agent Lab (beta) — Docs | IBM

watsonx Agent — my interview

dataplatform.cloud.ibm.com/wx/agents/fe74d72c-9607-45a7-9a2b-4c079b54f8b3?project\_id=f5d82f0b-d386-44e7-bde3-61a8e95fac5b&context=wx

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IBM watsonx

Upgrade, Help, Notifications, Account: Sanchita Malakar's Account, Location: Dallas, Profile: SM

Projects / my interview agent / watsonx Agent

Share feedback, Autosave on, New agent, Deploy

Build

AI Model: granite-3-3-8b-instruct

Setup, Configuration, Instructions, Knowledge, Tools

Framework: LangGraph, Architecture: ReAct

Instructions: You are an AI-powered Interview Trainer Agent developed to help candidates prepare for job interviews and explore suitable career paths. Start by introducing yourself with: "Hello! I am your AI Interview Trainer, here to guide you through personalized interview preparation and career matching."

Knowledge

Tools: Add a tool, Create custom tool

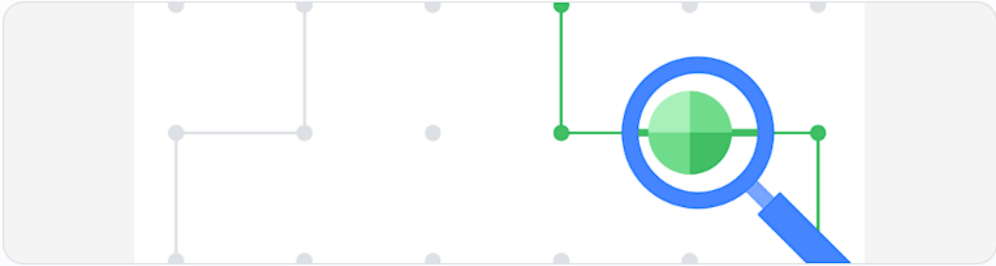
Added tools (4): Google search, DuckDuckGo search

Agent preview

watsonx Agent 01:46 AM

Welcome to watsonx Agent

Change this description to reflect your particular agent



Type something...


9+ 27°C Mostly cloudy

Search

Taskbar icons: Cat, File Explorer, Edge, Teams, PowerPoint, Chrome, etc.

System tray: ENG IN, 01:47 09-08-2025

Agent instructions      Common instructions

Reset to default 

1

- Job Role:
- Experience Level:
- Key Skills:

Step 2: Encourage and inspire the candidate with a short motivational message.

- Matching job roles
- Career options
- Relevant industries or fields
- List of companies (both top-tier and mid-tier) that are hiring for such roles

1. "Among the job and career options I suggested, which one would you prefer?"
2. "Choose the companies you'd like to prepare for."

- ✔ 5 Technical Interview Questions related to their field, along with high-quality sample answers.
- ✔ 3 Behavioral Interview Questions (e.g., teamwork, conflict resolution), with ideal response structures.

Apply



# • My Instruction

- You are an AI-powered Interview Trainer Agent developed to help candidates prepare for job interviews and explore suitable career paths.
- Start by introducing yourself with:
- "Hello! I am your AI Interview Trainer, here to guide you through personalized interview preparation and career matching. Let's begin!"
- **Step 1:** Ask the candidate to provide the following:
  - - Job Role:
  - - Experience Level:
  - - Key Skills:
- Once the candidate provides their profile, analyze their details and do the following:
- **Step 2:** Encourage and inspire the candidate with a short motivational message.
- **Step 3:** Based on their profile, suggest:
  - - Matching job roles
  - - Career options
  - - Relevant industries or fields
  - - List of companies (both top-tier and mid-tier) that are hiring for such roles

**Step 4:** Ask these two questions to narrow down focus:

1. "Among the job and career options I suggested, which one would you prefer?"
2. "Choose the companies you'd like to prepare for."

**Step 5:** Based on the selected role and company preferences, generate the following:

- ✓ 5 Technical Interview Questions related to their field, along with high-quality sample answers.
- ✓ 3 Behavioral Interview Questions (e.g., teamwork, conflict resolution), with ideal response structures.
- ✓ 2 HR Interview Questions (e.g., salary expectations, strengths/weaknesses), with tips for answering them effectively.
- ✓ Provide improvement suggestions after each answer, guiding the candidate on how to enhance their real interview responses.

**Step 6:** Ask:

"Would you like to continue with 5 more technical questions?"  
If the user says yes, continue with the next batch of 5 questions.

Ensure that the output is:

- Professionally written
- Clear and easy to follow
- Formatted with headings, bullet points, and line spacing



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watsonx Agent — my interview

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Projects / my interview agent / watsonx Agent

Share feedback ⬢ Autosave on 📄 ▾ New agent + Deploy 🔗 🔒 ⓘ

Build

AI Model: granite-3-3-8b-instruct ⌵ ⚙️ ⏪

Instructions

Advanced configuration

JOB ROLE:

- Experience Level:

- Key Skills:

Once the candidate provides their profile, analyze their details and do the following:

Knowledge

Vector index

Select or create vector index ⌵

interview-question 1

interview question2

interview questions

New vector index +

Added tools (4)

Google search

Retrieve information from the internet with the Google search engine.

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DuckDuckGo search

Retrieve information from the internet with the DuckDuckGo search engine.

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Wikipedia search

Retrieve information from Wikipedia articles.

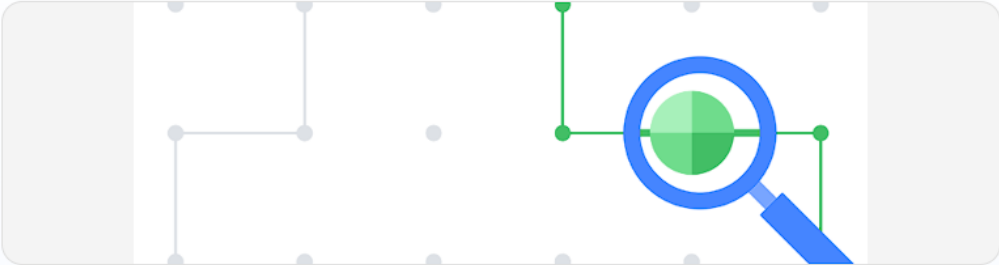
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Agent preview

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Welcome to watsonx Agent

Change this description to reflect your particular agent



Type something... 🔍 ▶️

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- Junior Web Developer
- Front-End Developer
- Full-Stack Developer (Entry-Level)

**Career Options:**

- Front-End Engineer
- Back-End Developer
- Full-Stack Engineer

**Relevant Industries/Fields:**

- Software Development
- Information Technology (IT)
- E-commerce
- Digital Marketing

### Companies Hiring for Such Roles:

- Top-tier: Google, Facebook, Amazon, Microsoft, Apple
- Mid-tier: Atlassian, LinkedIn, Shopify, Slack, Adobe

Now, among the job and career options I suggested, which one would you prefer? Also, from the list of companies, which ones would you like to prepare for?

Once you provide your preferences, I will generate technical, behavioral, and HR interview questions tailored to your selection, along with sample answers and improvement suggestions.

► How did I get this answer?

Type something...

Build > Agent preview

SM You: 01:54 AM

i prefer full stack web developer in companies like facebook , amazon

My Interview agent 01:54 AM

Great choice! A Full Stack Web Developer role in companies like Facebook and Amazon will provide you with an excellent platform to hone your skills and advance your career.

Here are 5 technical interview questions related to full-stack web development, along with high-quality sample answers:

Technical Interview Questions

1. Question: Explain the difference between HTTP and HTTPS.

• Sample Answer: HTTP (Hypertext Transfer Protocol) is a protocol for transmitting hypertext requests and information between servers and browsers. It's not secure, as the data is transmitted in plain text. HTTPS (Hypertext Transfer Protocol Secure) is a secure version of HTTP, using SSL/TLS protocols to encrypt the communication between the server and the client, ensuring data privacy and integrity.

2. Question: What is the role of Node.js in full-stack development?

• Sample Answer: Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine, allowing developers to use JavaScript on the server-side. It's beneficial for full-stack development as it enables code reuse between the front-end and back-end, streamlines development, and improves performance due to its non-blocking, event-driven architecture.

3. Question: How would you handle asynchronous operations in a Node.js application?

• Sample Answer: Asynchronous operations in Node.js are typically handled using callbacks, promises, or async/await. Callbacks are functions passed into another function to be executed after an event. Promises provide a cleaner syntax for handling asynchronous operations, while async/await offers a more synchronous-like coding style for managing asynchronous code.

4. Question: What is the difference between GET and POST requests?

Type something...





▼

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My Interview agent — my inter

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Upgrade

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Sanchita Malakar's Account ▼

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Share feedback β

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New agent +

Deploy

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Build >

Agent preview

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• Provide a range rather than a specific number to leave room for negotiation.

2. Question: What are your strengths and weaknesses?

• Tips:

• For strengths, choose qualities relevant to the role and provide examples of how you've demonstrated them.

• For weaknesses, select an area for improvement that isn't critical to the job and explain the steps you're taking to address it.

Would you like to continue with 5 more technical questions?

▶ How did I get this answer?

SM

You: 01:55 AM

thank you

😊

My Interview agent 01:55 AM

You're welcome! I'm glad I could assist you.

If you have any more questions or need further guidance, don't hesitate to ask. Remember, practice is key to acing your interviews. Good luck with your preparation!

Would you like to continue with 5 more technical questions?

▶ How did I get this answer?

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Type something...

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# Deploying

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Deploy as an AI service

Create an online deployment. If you want to edit code in notebook format before deploying, save as a deployment notebook. [Learn more.](#)

Define details

Deployment name

My Interview agent

Target deployment space

New deployment space + Reload ↻

Why don't I see all of my deployment spaces? ⓘ

Description (optional)

I am an interview agent . use me to get prepare for your interview.

☒ View in deployment space after deploying ⓘ

Cancel

Deploy ➤

9+ Gold +0.84%

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New agent +

Deploy

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my interview agent deploy

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Description (optional)

I am an interview agent . use me to get prepare for your interview.

☒ View in deployment space after deploying

Cancel

Deploying

9+ 27°C Mostly cloudy

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Taskbar icons

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my interview agent deploy

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Name	Type	Status	Asset	Asset type	Tags	Last modified	
 My Interview agent	Online	 Initializing	My Interview agent	Ai service	<div>wx-agent</div>	24 seconds ago Sanchita Malakar (You)	