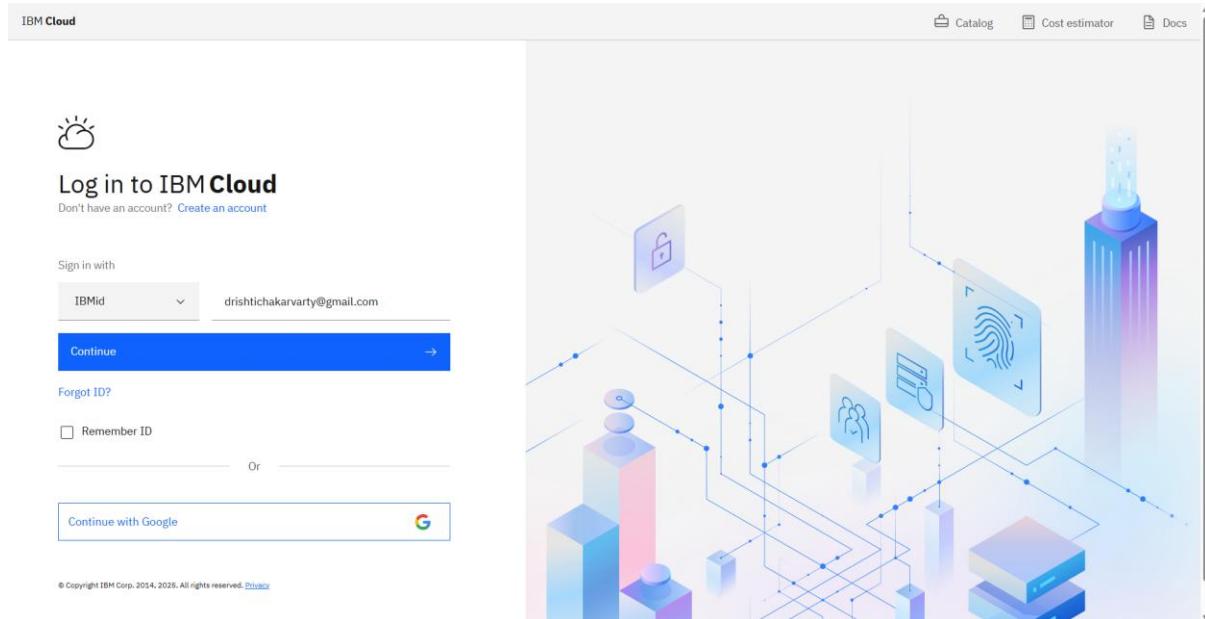
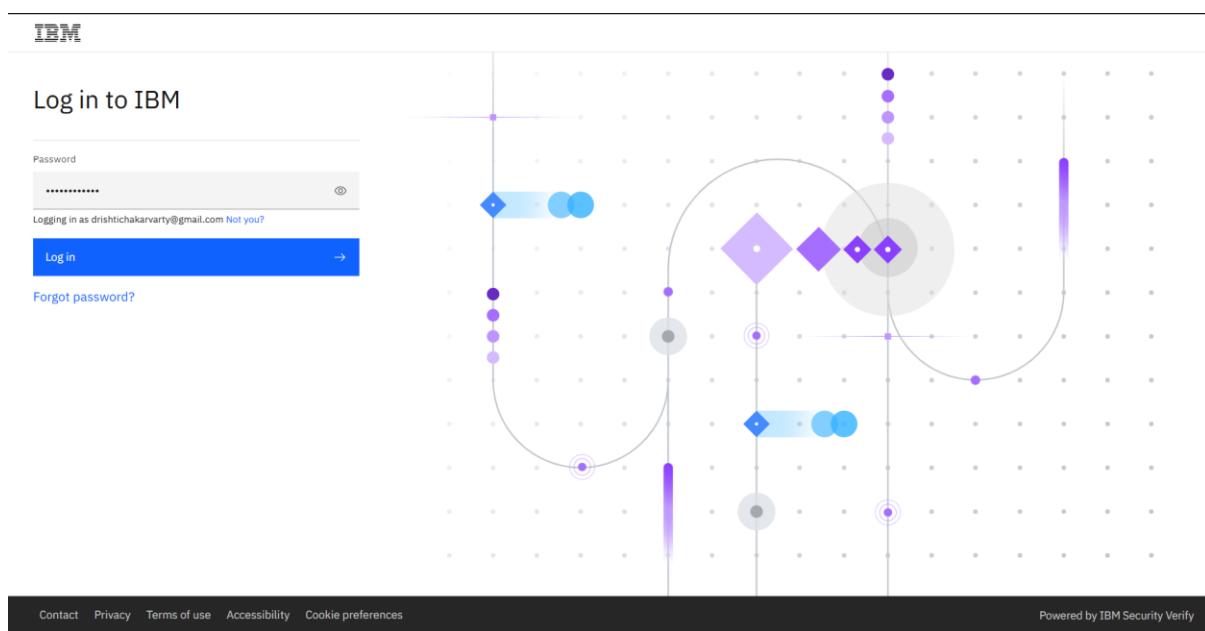


Agentic AI on IBM Cloud

Step1: Open IBM Cloud login page using the link cloud.ibm.com, enter your Gmail and click on Continue.



Step2: Enter your password click on login.



Step3: IBM Cloud Dashboard.

The screenshot shows the IBM Cloud Dashboard. At the top, there's a search bar labeled "Search resources and products..." and a "Create resource" button. Below the search bar, there are several service cards: "Build" (Explore IBM Cloud with this selection of easy starter tutorials and services), "Use Watson Assistant" (Watson Assistant lets you build conversational interfaces into any application, device, or channel), "Use Watson Studio" (Watson Studio provides a suite of tools and a collaborative environment for data scientists, developers and domain experts), "Build with Watson" (Chatbots, insights, recognizers, and more. Explore the AI platform for business), and "IBM Watson Machine Learning" (Deploy, monitor and optimize machine learning models quickly and easily. Leverage auto-generated APIs to infuse AI into applications). At the bottom, there are links for "IBM Cloud status", "Recent support cases", "Planned maintenance", and "Total emissions".

Step-4 Now click on the Search bar and write “Watsonx.ai Studio”.

The screenshot shows the IBM Cloud Dashboard with a search bar at the top containing the text "watsonx.ai studio". Below the search bar, there is a "Catalog Results" section with a red box highlighting it. This section lists several items: "watsonx.ai Studio Service", "watsonx Service", "NeuralSeek Service", "Cloud automation for watsonx.ai Software", and "Watsonx.ai SaaS with Assistant and Governance Software". There are also links to "Search 'watsonx.ai studio' in Support Cases" and "Search 'watsonx.ai studio' in Docs". The rest of the dashboard interface is visible below this search results section.

Step-5 Now select the Region as London and then click on Create.

The screenshot shows the IBM Cloud Catalog interface. On the left, there's a sidebar with service details: Type: Service, Provider: IBM, Last updated: 05/06/2025, Category: AI / Machine Learning, Compliance: HIPAA Enabled, IAM-enabled, Location: Sydney (au-syd), Frankfurt (eu-de), London (eu-gb), Tokyo (jp-tok), Dallas (us-south), Toronto (ca-tor). The main area has tabs 'Create' (selected) and 'About'. A 'Select a location' dropdown is open, showing 'London (eu-gb)' with a red box around it. Below it, a table lists 'Plan', 'Features and capabilities', and 'Pricing' for the 'Lite' plan. The 'Features and capabilities' section includes a bullet list of resources. To the right, a 'Summary' panel shows the service name 'watsonx.ai Studio', location 'London (eu-gb)', plan 'Lite', and resource group 'Default'. At the bottom right, there's a checkbox for license agreements and a large blue 'Create' button with a red box around it.

Step-6 Now click on the Dropdown and then select IBM watsonx.

The screenshot shows the details page for a Watsonx.ai Studio-vr resource. The top navigation bar includes 'IBM Cloud', 'Search resources and products...', 'Catalog', 'Manage', 'Drishti Chakarvary's Account', and various icons. The main content area has tabs 'Manage' (selected) and 'Plan'. It features a title 'watsonx.ai Studio in Cloud Pak for Data and watsonx' with a small icon. Below it is a description: 'Build and deploy machine learning models on either platform. Work with foundation models on watsonx as a Service.' A 'Launch in' dropdown menu is open, showing 'IBM Cloud Pak for Data' and 'IBM Watsonx', with 'IBM Watsonx' highlighted by a red box. To the right, there's a diagram illustrating the architecture: 'IBM Watsonx.ai Studio in Cloud Pak for Data and watsonx' sits atop 'IBM Cloud Pak for Data, watsonx Unifying platforms', which sits on top of 'IBM Cloud Base cloud infrastructure'. Below the diagram, text states: 'IBM Watsonx.ai Studio is part of IBM Cloud Pak for Data and Watsonx, and serves as the AI capability of the data fabric architecture.' At the bottom, there are sections for 'Helpful links', 'Documentation', 'Learning path', and 'Videos'.

Step-7 You will be redirected to this interface.

The screenshot shows the IBM WatsonX interface. At the top, there's a banner with the text "Welcome back, Drishti". Below it, a callout box says: "Once you create a sandbox project or migrate projects, you will be able to open a task directly in your project and start working." There are several cards for AI tasks: "Train, validate, tune and deploy AI models.", "Chat and build prompts", "Build an AI agent to automate tasks", and "Tune a foundation model with labeled data". Below these are links for "Jump back in", "Discover", "Home / Projects", "Home / Deployments", "Spaces / Hosting", and "Hosting / watsonx Agent".

Step-8 Scroll little bit up and then click on Create a Sandbox Project.

The screenshot shows the "Resource hub" section of the IBM WatsonX interface. It includes a "What's new" sidebar with news items about WatsonX.ai and governance on AWS. In the main area, there are sections for "Recent work", "Projects", and "Deployment spaces". The "Create a project" section contains a button labeled "Create a sandbox project" which is highlighted with a red box.

Step-9 Now click on Create a Project instead.

The screenshot shows the IBM Watsonx dashboard. At the top, there are buttons for 'Create API key' and 'Manage IBM Cloud API keys'. On the right, a tooltip box is overlaid on the interface, containing the following text:

Your sandbox project can't be cr...
You don't have a watsonx.ai Runtime instance.
Create a project instead. Then, open the Prompt Lab. You will be guided through associating a watsonx.ai Runtime instance with your project.
Timestamp 12:38:15 PM

The 'Recent work' section shows a 'Projects' card with a button labeled 'Create a sandbox project'. To the right, a 'Deployment spaces' section shows a placeholder for deployment spaces.

Step-10 Now give the name to your project and then click on Add to add the storage.

The screenshot shows the 'Create a project' form. The 'Define details' section has a 'Name' input field where 'Agentic_AI' is typed. Below it is a 'Description (optional)' field. Underneath is a 'What's the purpose of this project?' text area. The 'Tags (optional)' section has a 'Add tags' button. At the bottom, the 'Define storage' section has a '① Select storage service' button with an 'Add' sub-button, which is highlighted with a red box. A note at the bottom says 'Add an object storage instance, and then return to this page and click'. At the bottom right are 'Cancel' and 'Create' buttons.

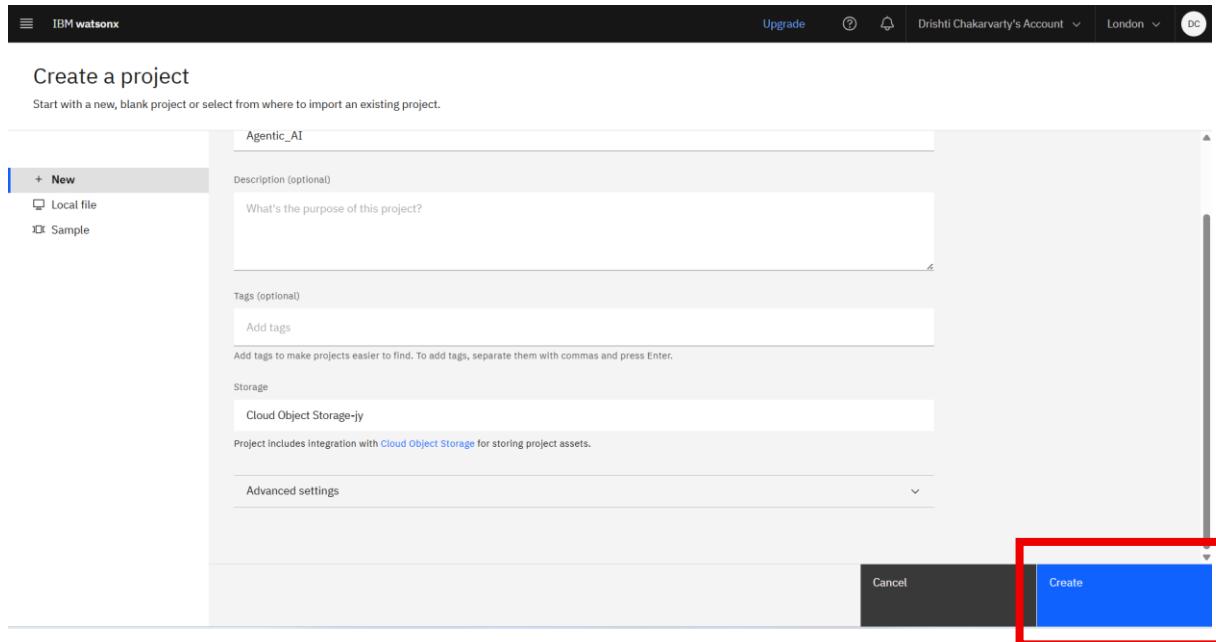
Step-11 Now create the Cloud Object Storage, make sure to select the lite plan and then click on Create.

The screenshot shows the 'Cloud Object Storage' creation interface. On the left, there's a table comparing 'Plan', 'Features', and 'Pricing'. The 'Lite(deprecated)' plan is highlighted with a red box. It's described as a free option for up to 25 GB per month, with no minimum fee. The 'Standard' plan is also listed but not highlighted. On the right, a summary panel shows the service name 'Cloud Object Storage-jy' and the selected 'Lite(deprecated)' plan. A large blue 'Create' button is at the bottom right of the summary panel, also highlighted with a red box.

Step-12 Now click on Refresh.

The screenshot shows the 'Create a project' page. On the left, there's a sidebar with options like '+ New', 'Local file', and 'Sample'. The main area has fields for 'Tags (optional)' and 'Define storage'. Under 'Define storage', step 1 'Select storage service' is completed with 'Add'. Step 2 'Refresh' is highlighted with a red box. At the bottom, there's an 'Advanced settings' dropdown and a 'Create' button.

Step-13 Now click on Create. Your project has been successfully created.



Step-14 Now click on Manage.

The screenshot shows the 'Manage' tab selected in the top navigation bar of the project overview. The page displays various management tasks like adding collaborators, data, and tuning models, along with resource usage and project history details.

Jump back in	Resource usage	Project history
Assets that you create with tools show here. See all assets, including data assets, on the Assets page. View all	For this month in this project 0 CUH 0 Tokens 0 Hosting hours 0	You created project Agentic_AI Today at 12:40 PM

Step-15 Click on Services & Integrations and then click on Associate Service.

The screenshot shows the IBM Watsonx interface. On the left, there's a sidebar with various project management options like General, Access control, Environments, Tools, and Pipeline. The 'Services & integrations' option is highlighted with a red box. The main area is titled 'Services & integrations' and has tabs for 'IBM services' and 'Third-party integrations'. Below this, there's a section for associating services with the project, featuring a search bar and a 'Find services' button. To the right, there's a large button labeled 'Associate service +' also highlighted with a red box. The overall interface is clean with a light grey background and blue accents for buttons.

Step-16 Now click on New Service.

This screenshot shows the 'Associate service' dialog box. It has sections for 'Default' and 'Locations' with dropdown menus. Below these are 'Find services' and 'New service +' buttons. The main area features a table with columns for Name, Type, Plan, Location, Status, and Group. A message at the bottom states 'No services available' and suggests changing filters or adding a new service instance. At the very bottom are 'Cancel' and 'Associate' buttons.

Step-17 Now select the watsonx.ai Runtime.

The screenshot shows the IBM WatsonX interface. On the left, there's a sidebar with project navigation and a search bar. The main area is titled 'Associate service' and has a 'Services' section. Under 'AI / Machine Learning', there are three cards: 'watsonx.ai Runtime' (highlighted with a red box), 'watsonx.ai Studio', and 'watsonx.governance'. Each card includes a brief description and a 'Lite • Free' button.

Step-18 Click on Create.

The screenshot shows the 'watsonx.ai Runtime' creation page. It has tabs for 'Create' (selected) and 'About'. The 'Create' tab includes fields for 'Select a region' (set to London) and a 'Pricing plan' table. The table shows a single 'Lite' plan with 'Service instance' details and 'Pricing' as 'Free'. To the right, a 'Summary' panel shows the service configuration with a 'Create' button at the bottom, which is highlighted with a red box.

Step-19 Select the created Runtime service and then click on Associate.

The screenshot shows the 'Associate service' dialog in the IBM Watsonx interface. A table lists a single service entry:

Name	Type	Plan	Location	Status	Group
watsonx.ai Runtime-gr	watsonx.ai Runtime	Lite	London	Not associated	Default

At the bottom right of the dialog, there are 'Cancel' and 'Associate' buttons. The 'Associate' button is highlighted with a red box.

Step-20 Now again go back to the previous tab and again click on IBM watsonx.

The screenshot shows the 'Service Details - IBM Cloud' page for 'watsonx.ai Studio-vr'. The 'Launch in' dropdown menu is open, showing two options: 'IBM Cloud Pak for Data' and 'IBM Watsonx'. The 'IBM Watsonx' option is highlighted with a red box. The main content area provides an overview of Watsonx AI Studio, mentioning its role in building and deploying machine learning models and working with foundation models. It also highlights its integration with Cloud Pak for Data and Watsonx.

Step-21 Now click on Build AI agent to automate tasks.

Welcome, Drishti

Train, validate, tune and deploy AI models.

Customize my journey

Open in: Agentic_AI

[...] Chat and build prompts with foundation models Start chatting... Open Prompt Lab

Build an AI agent to automate tasks with Agent Lab

Tune a foundation model with labeled data with Tuning Studio

Discover

Developer access

Project or deployment space: Project or deployment space Project ID: 00000000-0000-0000-0000-000000000000

watsonx.ai URL: https://eu-gb.dataplatform.cloud.ibm.com/wx/agents?context_wx&project_id=df3417b-1f8...

Developer hub

New watsonx Developer Hub to start coding fast.

Make your first API request to inference a foundation model in watsonx.ai. Find the right foundation models and code libraries for your AI

Collapse Discover section

Step-22 This is Watsonx Agent , now change the model here

IBM Watsonx

Projects / Agentic_AI / Agent Lab

Build Model: llama-3-3-70b-instruct

Setup

Configuration

Framework: LangGraph

Architecture: ReAct

Instructions

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?"

Tools

Add a tool Create custom tool

Agent preview

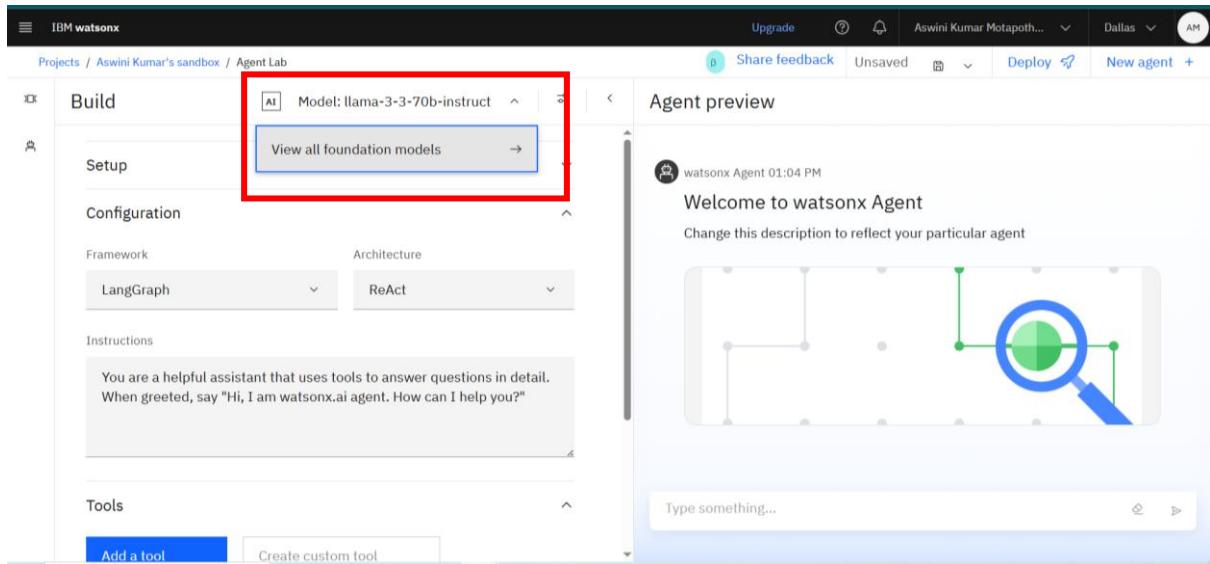
watsonx Agent 04:16 PM

Welcome to watsonx Agent

Change this description to reflect your particular agent

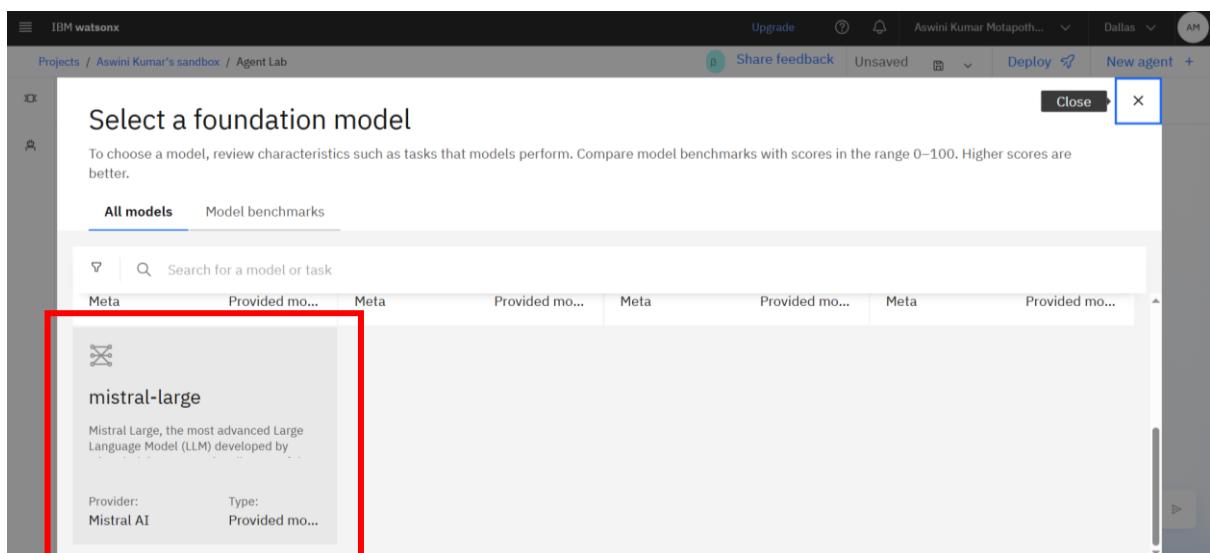
Type something...

Step-23 Click on “ View all foundation models” to change the model.



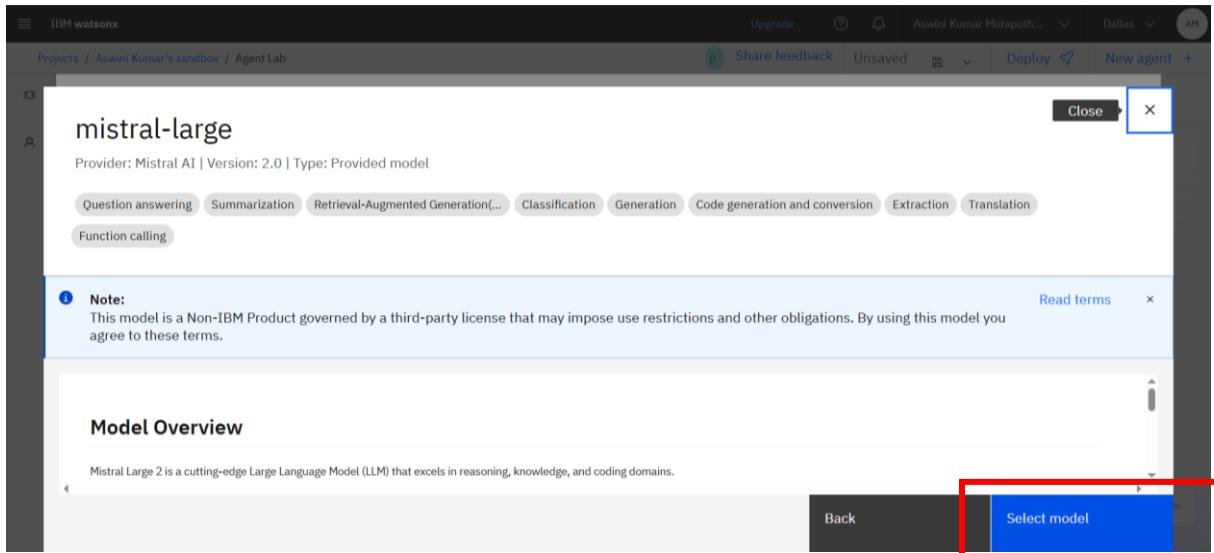
The screenshot shows the IBM Watsonx Agent Lab interface. On the left, there's a sidebar with sections like 'Build', 'Setup', and 'Configuration'. Under 'Build', a button labeled 'View all foundation models' is highlighted with a red box. To the right, there's a preview area titled 'Agent preview' showing a welcome message and a search bar. The top navigation bar includes options like 'Upgrade', 'Share feedback', 'Deploy', and 'New agent'.

Step-24 Now select mistral – large model .

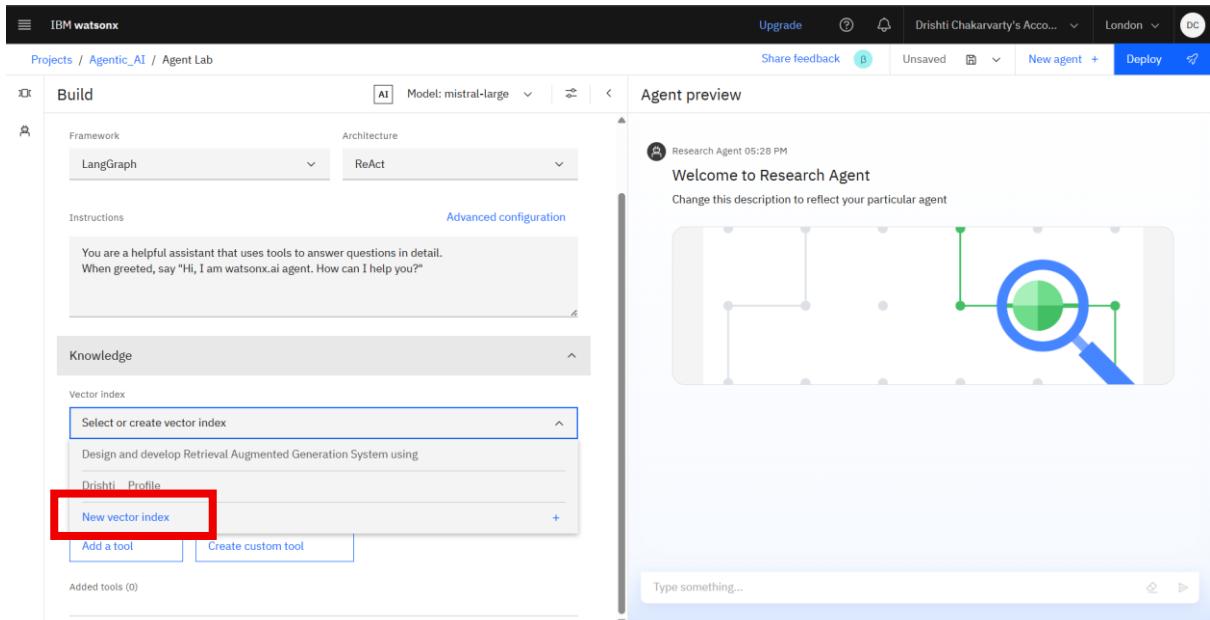


The screenshot shows a modal dialog titled 'Select a foundation model'. It displays a table of models. One row for 'mistral-large' is highlighted with a red box. The table has columns for 'Meta', 'Provided mo...', 'Meta', 'Provided mo...', 'Meta', 'Provided mo...', 'Meta', and 'Provided mo...'. Below the table, it says 'mistral-large' and 'Mistral Large, the most advanced Large Language Model (LLM) developed by ...'. It also shows 'Provider: Mistral AI' and 'Type: Provided mo...'. The top right of the dialog has 'Close' and 'X' buttons.

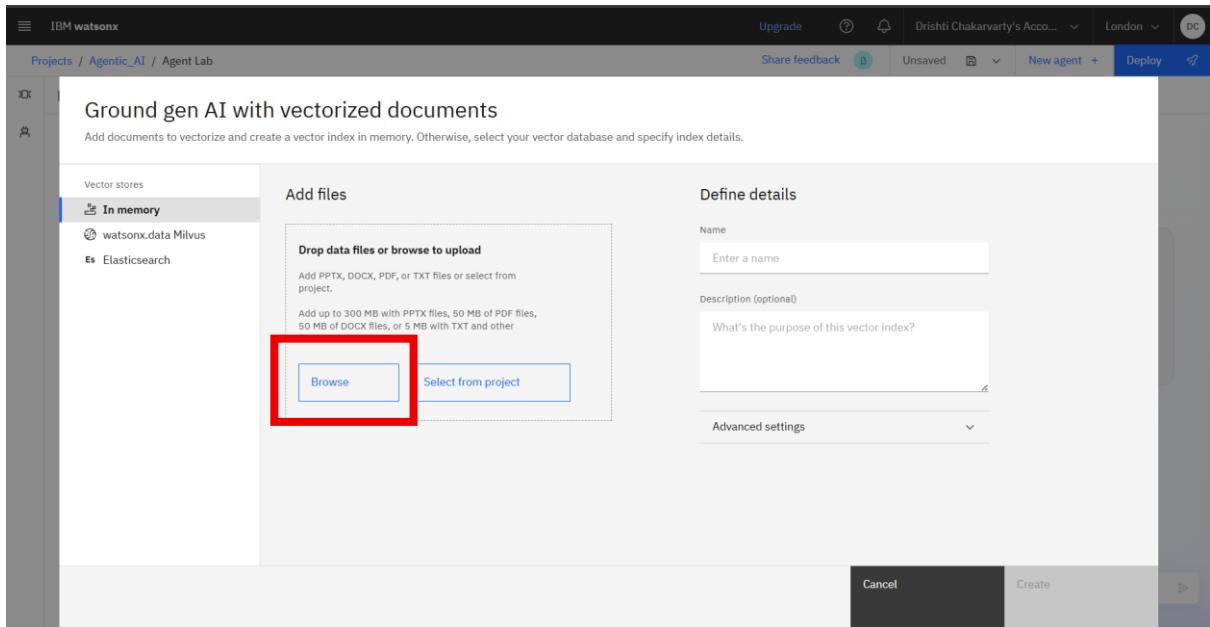
Step-25 Now click on Select model .



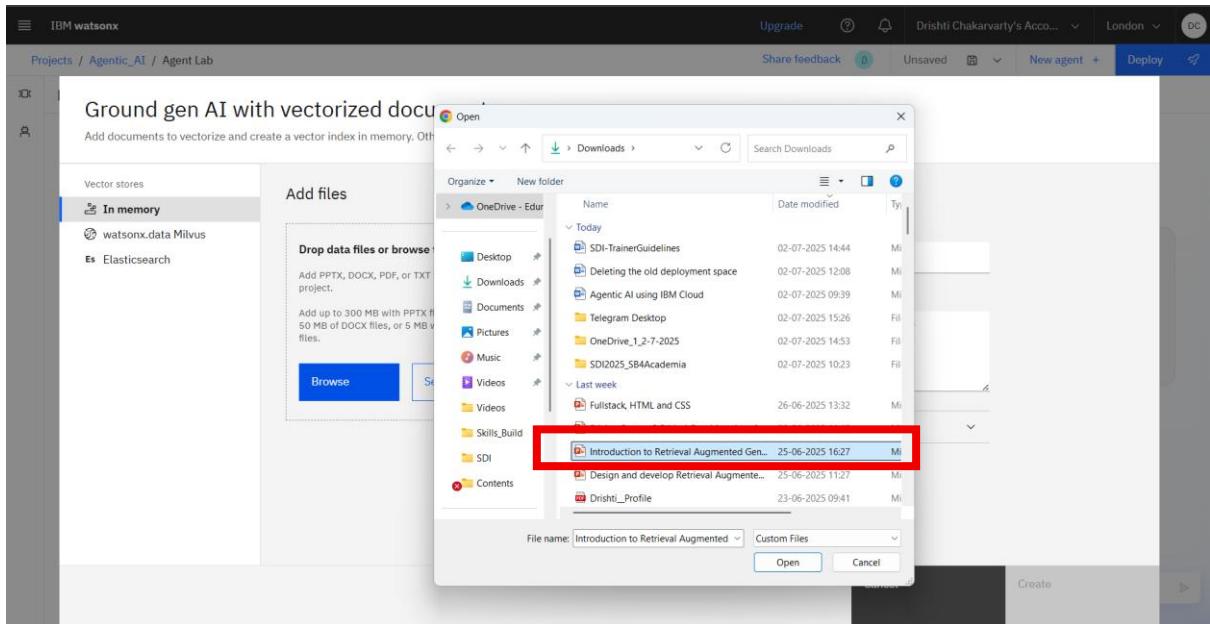
Step-26 Click on the knowledge and then click on New vector index.



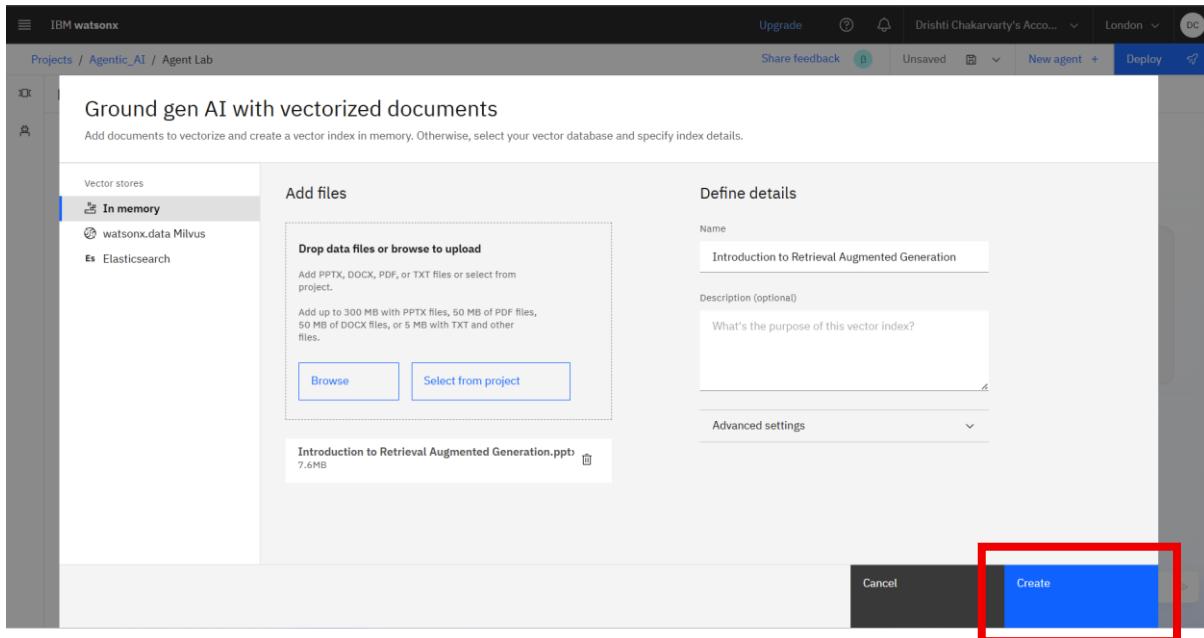
Step-27 Now click on Browse.



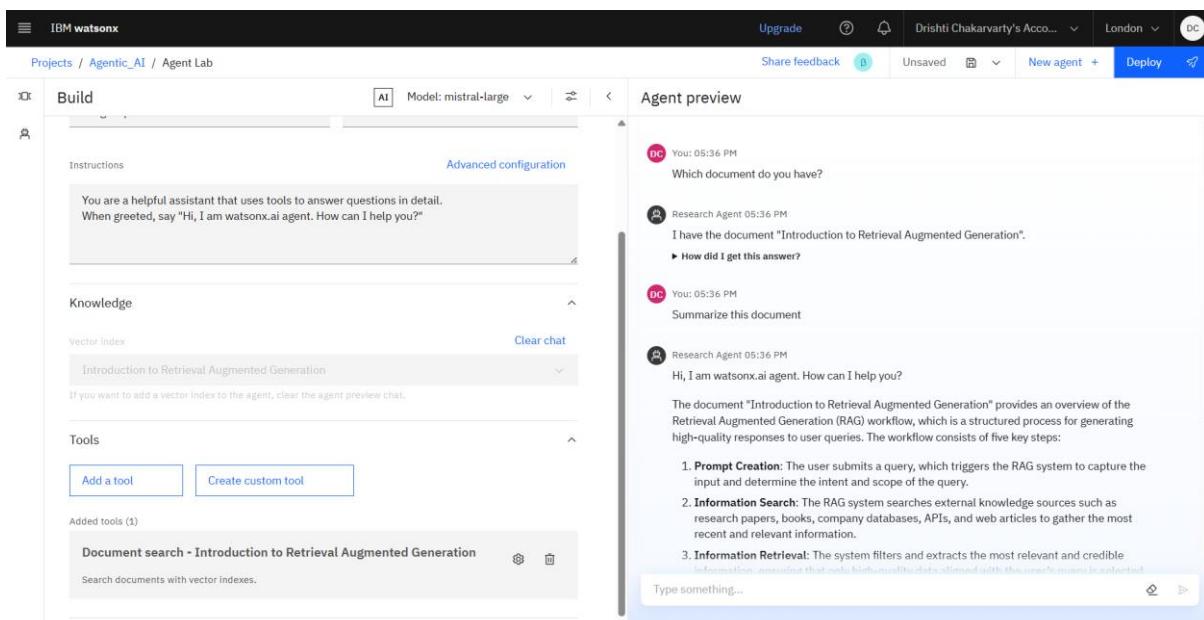
Step-28 Now select your document.



Step-29 Now click on Create.



Step-30 Now you can ask questions related to your document.



Step-31 Click on Add a tool.

The screenshot shows the IBM Watsonx interface. On the left, under the 'Build' tab, there's a 'Tools' section. A blue rectangular box highlights the 'Add a tool' button. To its right is a 'Create custom tool' button. Below these are sections for 'Added tools (1)' and 'Google search'. On the right side, the 'Agent preview' window is open, displaying a welcome message from 'watsonx Agent 01:04 PM' and a large magnifying glass icon over a grid of dots.

Step-32 Enable the tools (Shown in picture)

This screenshot shows the 'Select a tool' dialog. It has a search bar at the top labeled 'Search for a tool'. Below it is a grid of six tool options, each with a toggle switch:

Google search Retrieve information from the internet with the Google search engine.	Wikipedia search Retrieve information from Wikipedia articles.	DuckDuckGo search Retrieve information from the internet with the DuckDuckGo search engine.
Webcrawler Retrieve information from a website.	Weather Retrieve the weather of a city.	Document search Search documents with vector indexes.

This screenshot shows the same 'Select a tool' dialog as above, but with a thick red rectangular box highlighting the first three rows of the tool grid. The tools shown are Google search, Wikipedia search, and DuckDuckGo search.

Step-33 Type here your question here. This is output

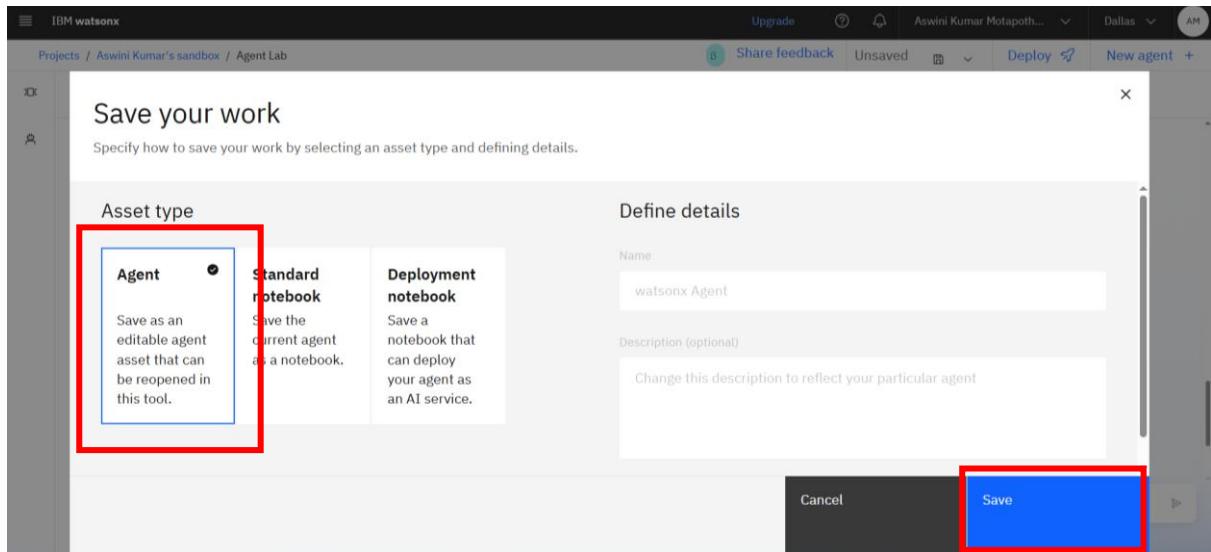
The screenshot shows the IBM Watsonx interface. On the left, there's a sidebar titled 'Build' with several search engine options: 'Wikipedia search', 'DuckDuckGo search', 'Webcrawler', and 'Weather'. The main area is titled 'Agent preview' and contains a message from 'watsonx Agent 01:05 PM' that says 'Welcome to watsonx Agent'. Below it is a placeholder text 'Change this description to reflect your particular agent'. At the bottom of the preview area, there's a red-bordered input field containing the question 'What is Edunet foundaion.'

This screenshot shows the same Watsonx interface after the question was processed. The 'Agent preview' section now displays a response from 'You: 01:05 PM' asking 'What is Edunet foundaion.'. Below it, a response from 'watsonx Agent 01:05 PM' says 'Here are some results I found:' followed by two numbered points. Point 1 is 'Edunet Foundation: Home' with a description and a URL link. Point 2 is 'Edunet Foundation | LinkedIn' with a description.

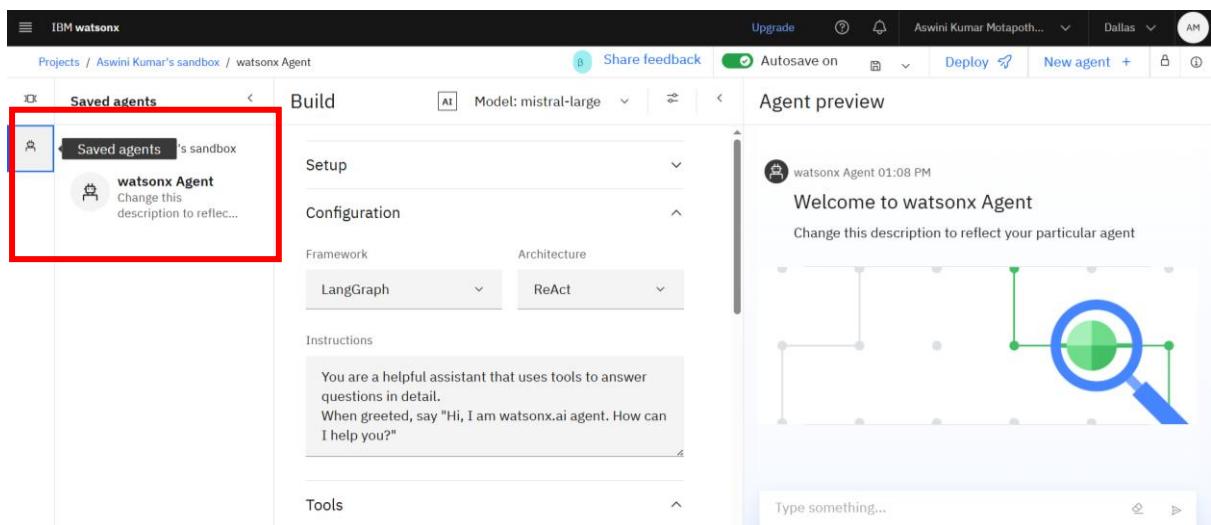
Step-34 Click on Save as icon .

This screenshot shows the Watsonx interface again. The 'Agent preview' section now includes a 'Save as' button highlighted with a red box. The previous responses from the agent are still visible below it.

Step-35 Save your work, choose Agent , click on save



Step-36 Your saved agents are available here



Step-37 Here sample agents are available

The screenshot shows the IBM Watsonx Agent interface. On the left, there's a sidebar with a red box highlighting the 'Sample agents' tab. Below it, a card for 'Sous Chef' is visible, describing it as a tool for generating tasty recipe ideas based on available ingredients. The main area is titled 'Build' and shows 'Setup' and 'Configuration' sections. Under 'Configuration', 'Framework' is set to 'LangGraph' and 'Architecture' to 'ReAct'. The 'Instructions' section contains a block of text about being a helpful assistant. To the right, the 'Agent preview' window is open, displaying a welcome message from 'watsonx Agent' at 01:08 PM, followed by a placeholder text 'Change this description to reflect your particular agent'. A large magnifying glass icon is shown in the preview area.

Step-38 Click on sample agents and click on overwrite

This screenshot shows the same interface as above, but with a modal dialog box in the center. The dialog title is 'Overwrite your agent with the sample agent...'. It contains a message explaining that if the user clicks 'Overwrite', their existing agent content will be overwritten by the sample. It also says they can keep their existing agent by opening the agent sample as a new agent in a new tab. At the bottom of the dialog are three buttons: 'Cancel', 'Open new agent', and a large blue 'Overwrite' button, which is highlighted with a red box. The background of the interface is dimmed.

Step-39 This is the output from sample agent & click on Deploy.

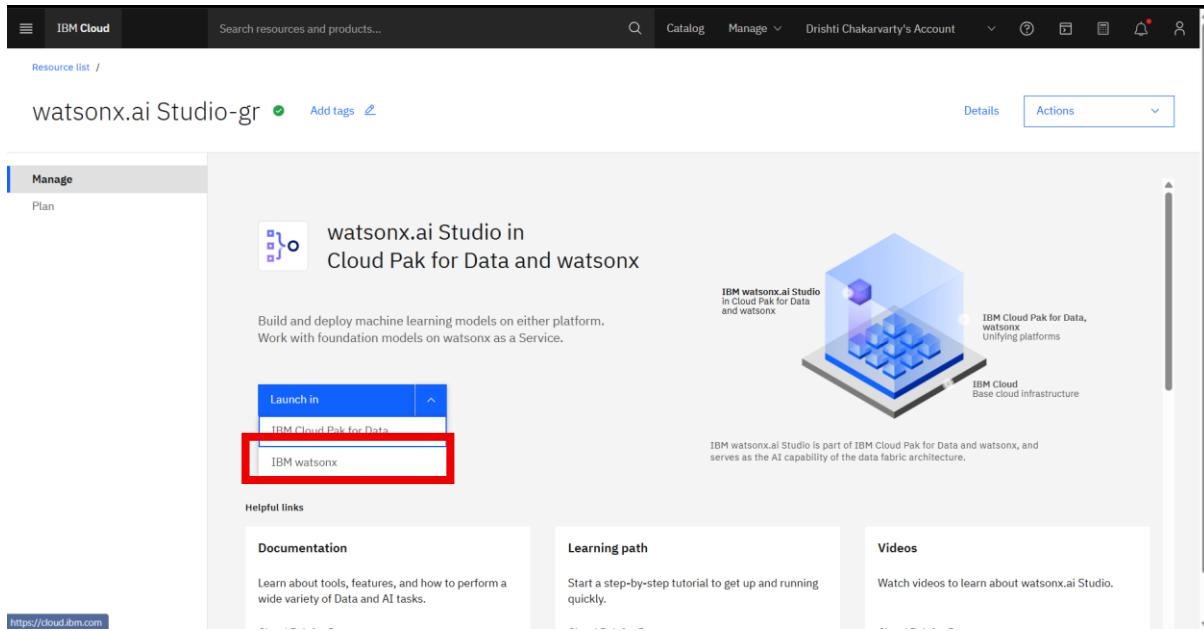
The screenshot shows the IBM Watsonx interface. On the left, there's a sidebar with sections like 'Build', 'Setup', 'Configuration', 'Instructions', and 'Tools'. The main area is titled 'Agent preview' and shows a conversation between a user ('You') and an AI agent ('Sous Chef'). The user asks for a chicken biryani recipe, and the agent responds with one. Below the conversation, there's a section for 'Ingredients:' with a bulleted list of items. At the bottom, there's a text input field with placeholder text 'Type something...'. In the top right corner of the preview area, there's a 'Deploy' button with a gear icon, which is highlighted with a red box.

Step-40 Now click on New Deployment Space.

The screenshot shows a modal dialog box titled 'Deploy as an AI service'. It has a heading 'Define details' and a 'Deployment name' field containing 'watsonx Agent'. Below this is a button labeled 'New deployment space' with a plus sign, which is highlighted with a red box. There's also a 'Reload' button. Further down, there's a 'Description (optional)' field with placeholder text 'Change this description to reflect your particular agent' and a checked checkbox for 'View in deployment space after deploying'. At the bottom of the dialog are 'Cancel' and 'Deploy' buttons.

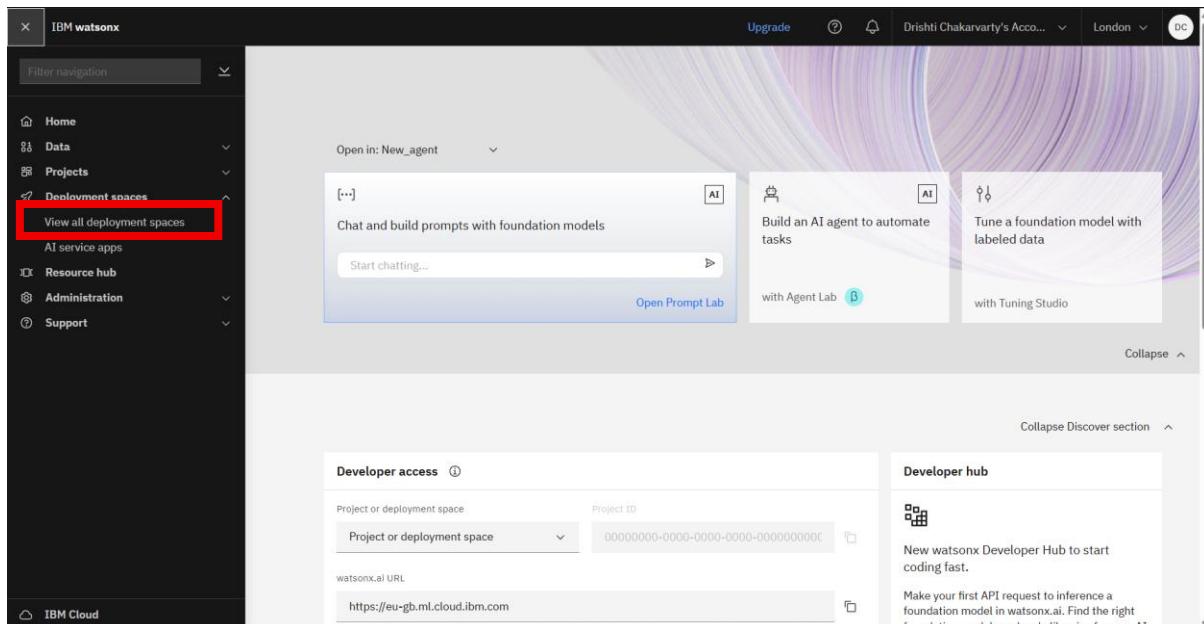
Note: If you are unable to create the new deployment space then delete the previous deployment space using the following steps

1. Go to the previous tab and then click on IBM watsonx.



The screenshot shows the IBM Cloud interface with the 'watsonx.ai Studio-gr' resource selected. On the left, there's a sidebar with 'Manage' and 'Plan' tabs. The main content area is titled 'watsonx.ai Studio in Cloud Pak for Data and watsonx'. It features a 3D diagram illustrating the architecture: 'IBM Watsonx Studio in Cloud Pak for Data and watsonx' (top), 'IBM Cloud Pak for Data, watsonx Unifying platforms' (middle), and 'IBM Cloud Base cloud infrastructure' (bottom). Below the diagram, it says 'IBM Watsonx Studio is part of IBM Cloud Pak for Data and watsonx, and serves as the AI capability of the data fabric architecture.' There are sections for 'Helpful links', 'Documentation', 'Learning path', and 'Videos'. A red box highlights the 'Launch in' dropdown menu, which shows 'IBM Cloud Pak for Data' and 'IBM Watsonx', with 'IBM Watsonx' being the selected option.

2. Click on the Hamburger on the left hand side and then click on View all deployment spaces.



The screenshot shows the IBM Watsonx dashboard. The left sidebar has a dark theme with various navigation options: Home, Data, Projects, Development spaces (with a red box around 'View all deployment spaces'), AI service apps, Resource hub, Administration, and Support. The main content area includes sections for 'Open in: New_agent' (with a 'Start chatting...' button and 'Open Prompt Lab' button), 'Discover' (with cards for AI agent, AI model tuning, and developer access), and 'Developer hub' (with a 'New watsonx Developer Hub to start coding fast.' message and a 'Make your first API request to inference a foundation model in watsonx.ai. Find the right foundation models and code libraries for your AI.' message).

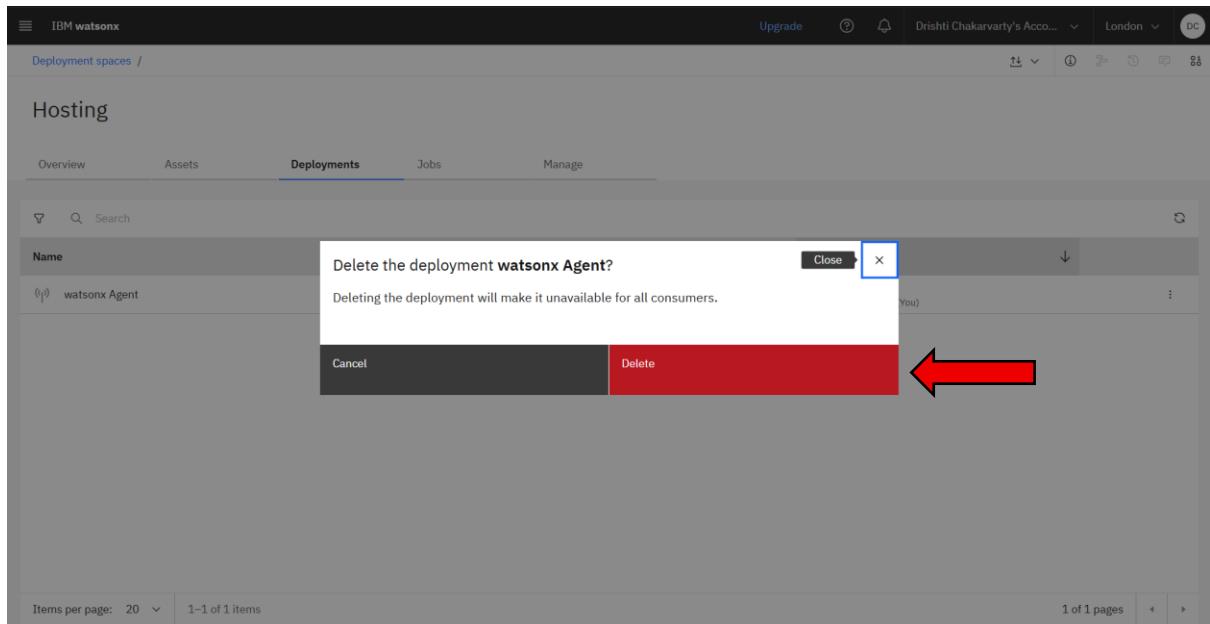
3. Click on the already created deployment space.

The screenshot shows the 'Deployment spaces' section of the IBM WatsonX interface. A single deployment space named 'Hosting' is listed. The table columns include Name, Last modified, Your role, Collaborators, Tags, Type, Online deployments, and Jobs. The 'Name' column for 'Hosting' is highlighted with a red box. The 'Type' column shows 'Development'. The 'Jobs' column indicates 1 job and 0 online deployments. The bottom navigation bar shows 'Items per page: 20' and '1–1 of 1 items'.

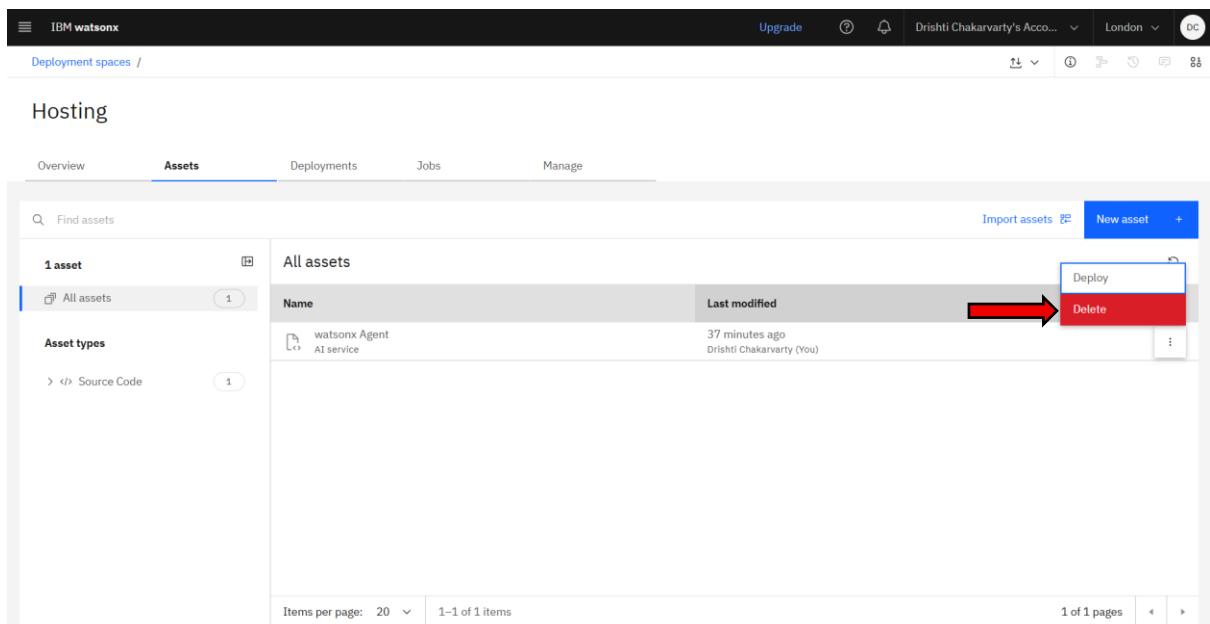
4. Click on Deployments and then delete the previously deployed agent.

The screenshot shows the 'Deployments' tab of the 'Hosting' deployment space. A single deployment named 'watsonx Agent' is listed. The 'Status' column shows 'Deployed'. The 'Last modified' column shows '37 minutes ago' and 'Drishti Chakarvary (You)'. A red arrow points to a context menu for the deployment row, which includes options for 'Edit' and 'Delete'. The bottom navigation bar shows 'Items per page: 20' and '1–1 of 1 items'.

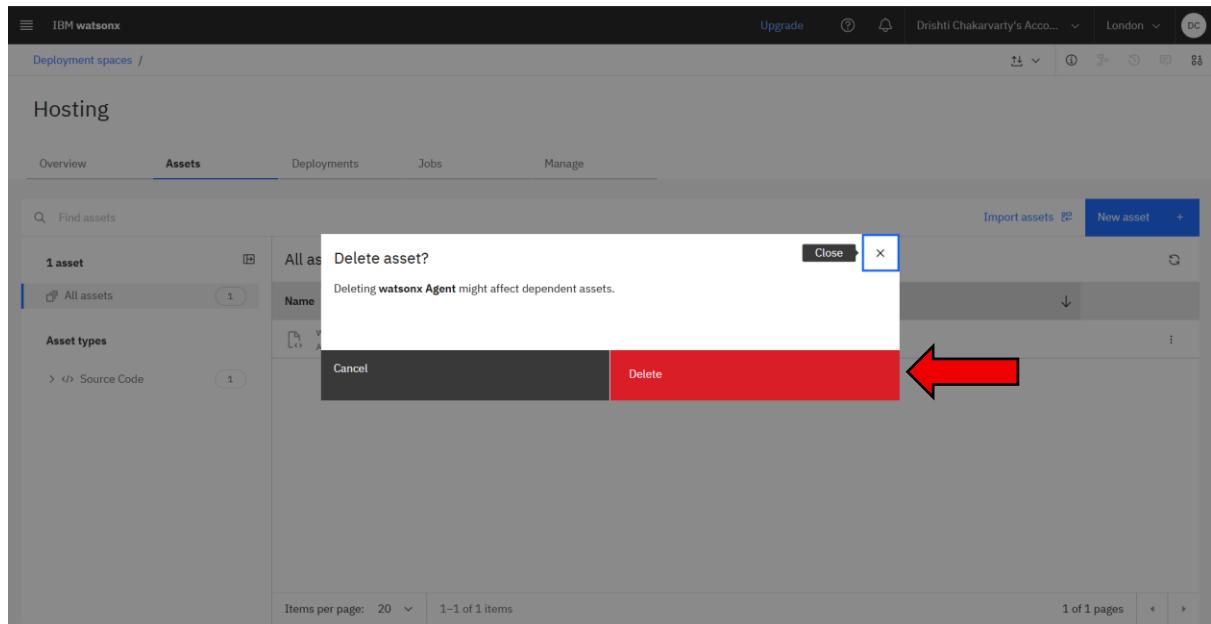
5. Click on Delete.



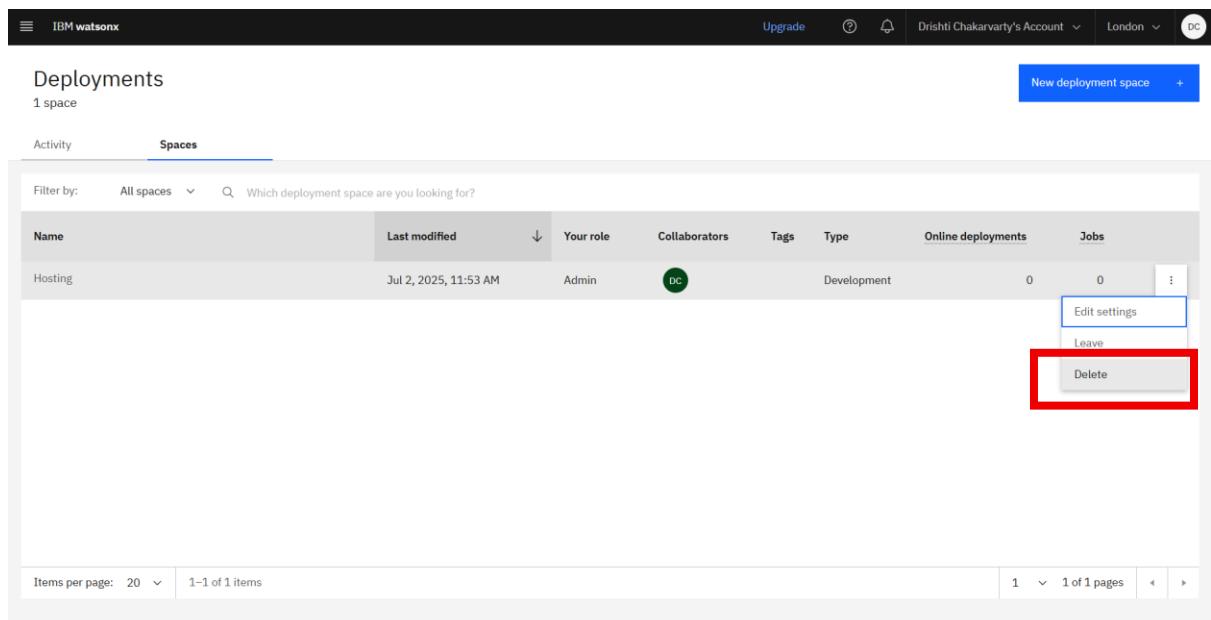
6. Now click on Assets and delete the previously created asset.



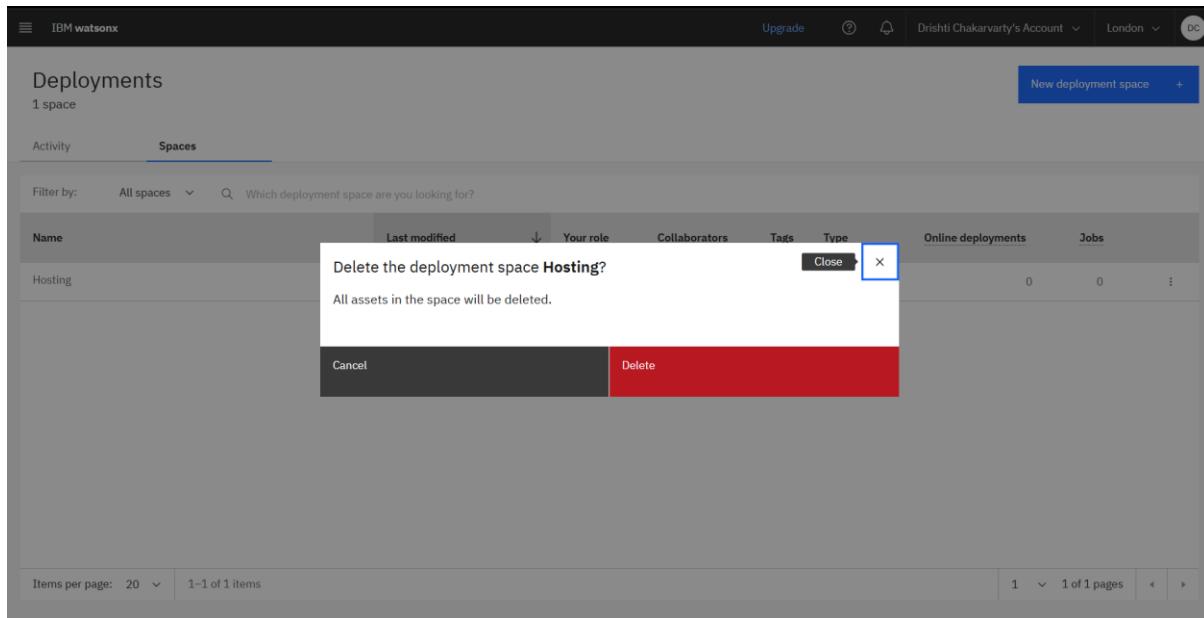
7. Click on Delete.



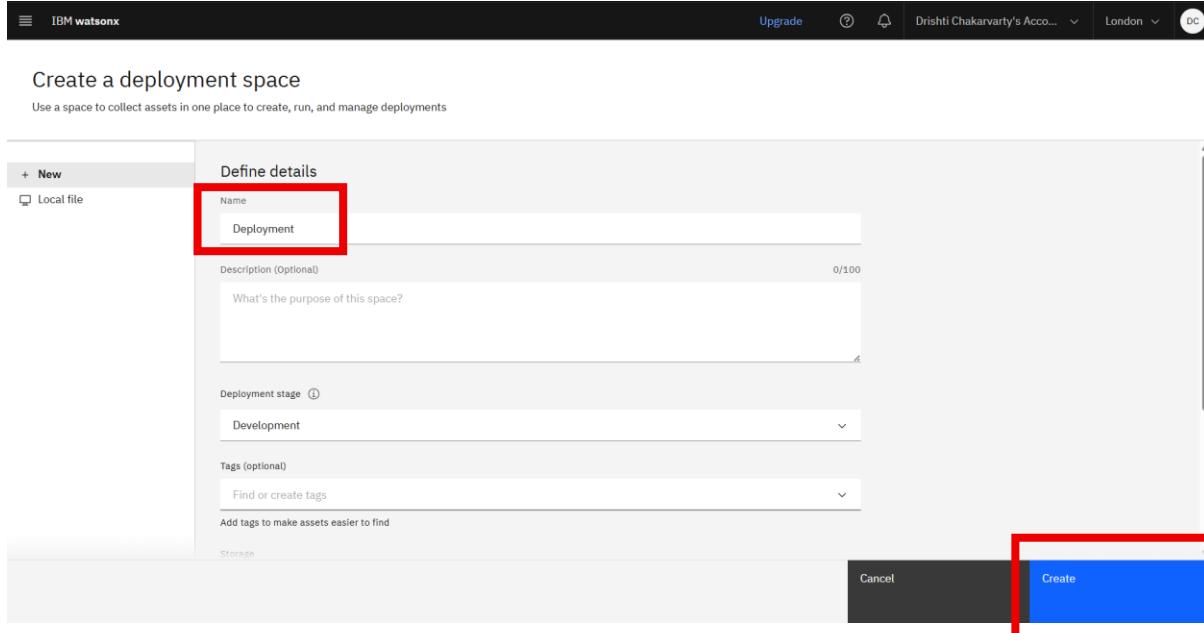
8. Now at the end Delete the previously created deployment space.



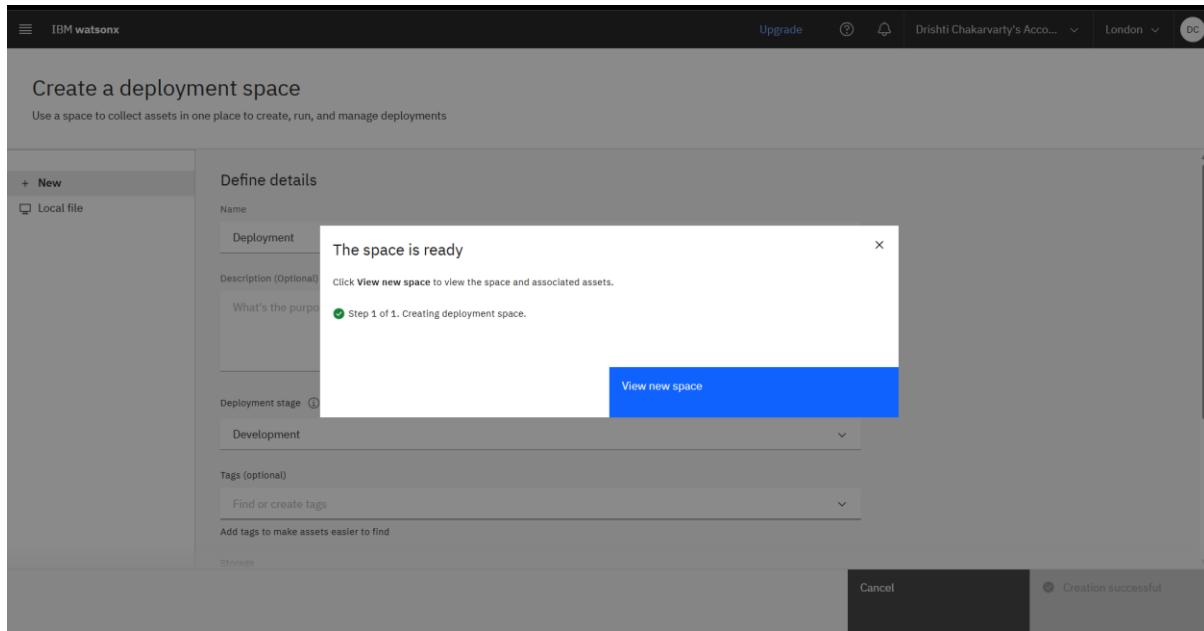
9. Click on Delete.



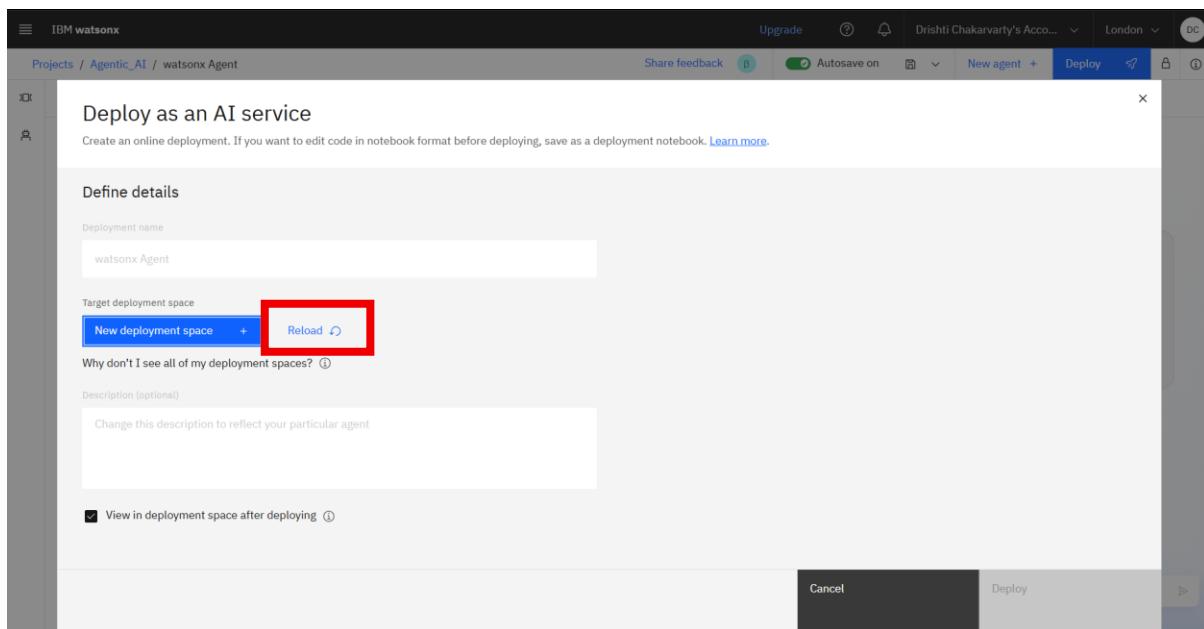
Step-41 Now give the name to your deployment space and then click on Create.



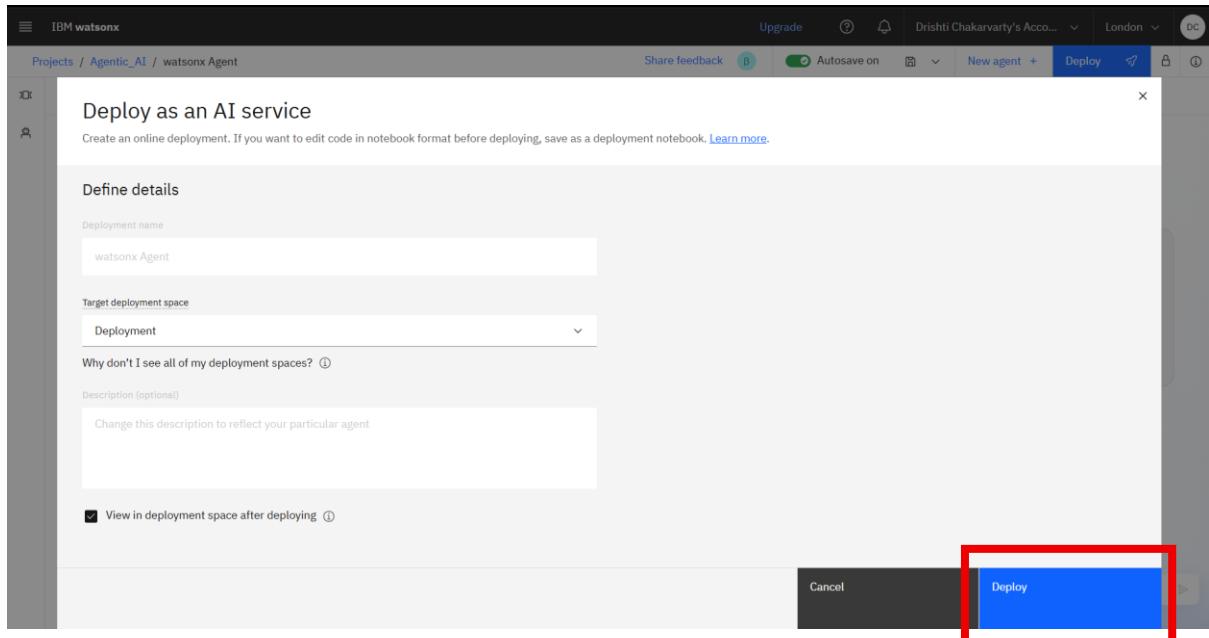
Step-42 You will get a pop-up displaying The space is ready.



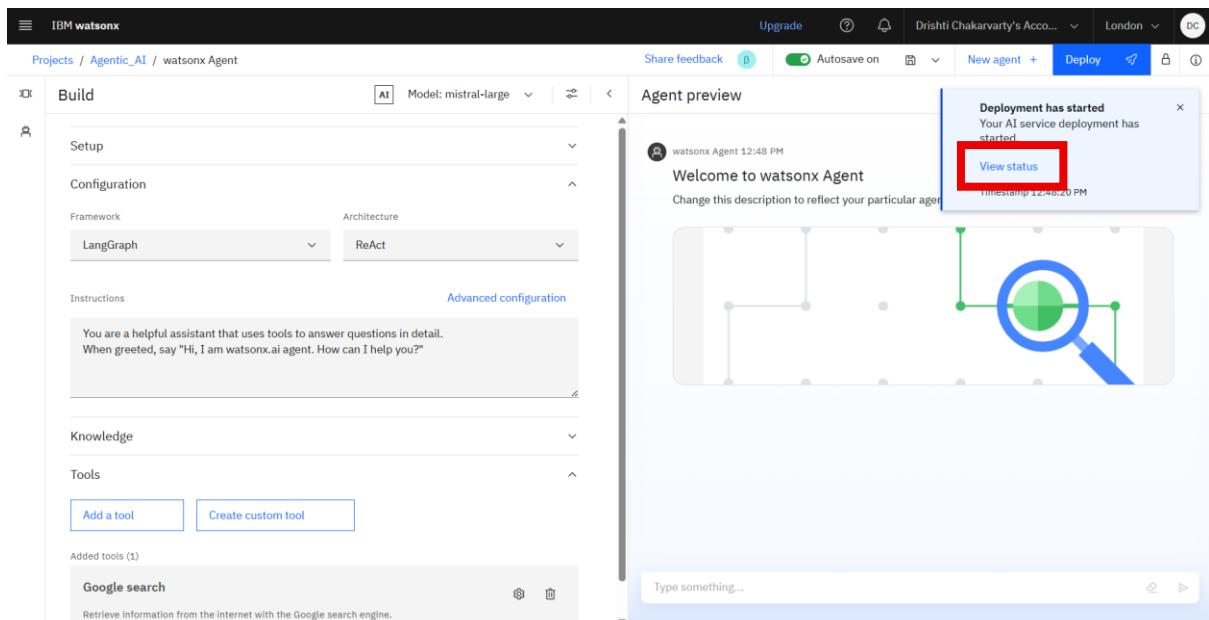
Step-43 Go back to the Deployment space and the click on Reload.



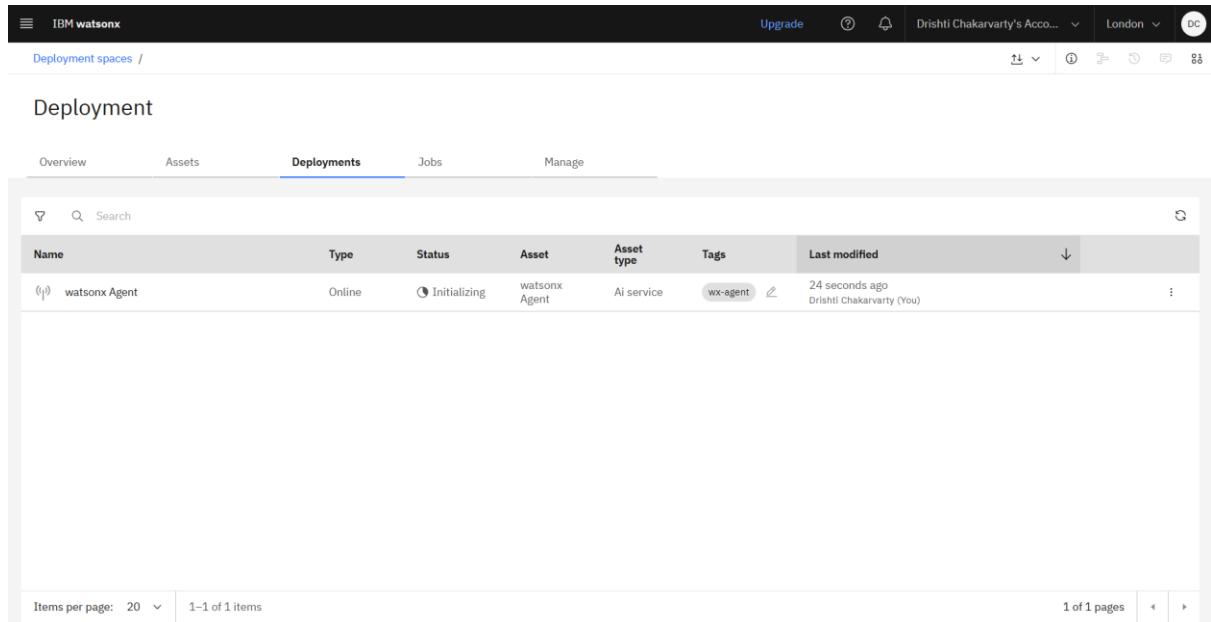
Step-44 Now click on Deploy.



Step-45 Click on View Status.



Step-46 You will see that your agent is getting deployed.

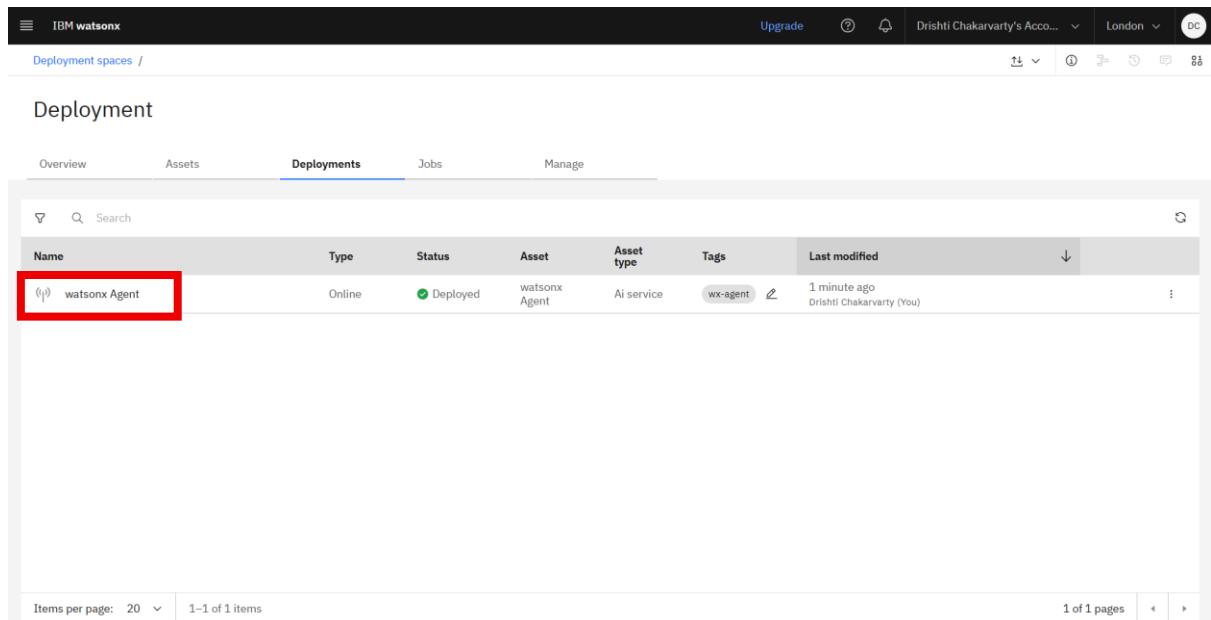


The screenshot shows the 'Deployment' section of the IBM Watsonx interface. The 'Deployments' tab is selected. A table lists one deployment entry:

Name	Type	Status	Asset	Asset type	Tags	Last modified
watsonx Agent	Online	Initializing	watsonx Agent	Ai service	wx-agent	24 seconds ago Drishti Chakarvary (You)

At the bottom, there are pagination controls: 'Items per page: 20' and '1 of 1 pages'.

Step-47 You can see that your agent is successfully deployed, now click on watsonx Agent.



The screenshot shows the 'Deployment' section of the IBM Watsonx interface. The 'Deployments' tab is selected. A table lists one deployment entry, which is highlighted with a red box:

Name	Type	Status	Asset	Asset type	Tags	Last modified
watsonx Agent	Online	Deployed	watsonx Agent	Ai service	wx-agent	1 minute ago Drishti Chakarvary (You)

At the bottom, there are pagination controls: 'Items per page: 20' and '1 of 1 pages'.

Step-48 You can see the API references for your Deployed agent.

The screenshot shows the IBM Watsonx interface for a deployed agent named "watsonx Agent". The top navigation bar includes "Upgrade", "Drishti Chakarvary's Acco...", "London", and a "DC" button. The main content area has tabs for "API reference", "Test", and "Preview". Under "API reference", there are sections for "Endpoints for inferencing" (listing private and public endpoints) and "Code snippets" (with tabs for cURL, Java, JavaScript, Python, and Scala). To the right, a sidebar titled "About this deployment" provides details like Name (watsonx Agent), Description (Change this description to reflect your particular agent), Deployment Details (Deployment ID: 16f72e65-7523-4dd0-81ee-8c4457bfb534, Serving name: No serving name, Software specification: ai-service-v8-software-specification, Hardware specification: Extra extra small: 1 CPU and 2 GB RAM, Copies: 1), Tags (wx-agent), and Associated asset (19806cae-1505-4c29-bf50-f2e00f7f5988). The "Last modified" field shows 2 minutes ago.

Step-49 Now you can click on Preview and ask questions to your agent.

The screenshot shows the "Preview" tab for the "watsonx Agent" deployment. The top navigation bar and sidebar are identical to the previous screenshot. The main content area features a "Welcome to watsonx Agent" message and a "Change this description to reflect your particular agent" input field. Below this is a large interactive graphic showing a magnifying glass over a grid of points, likely a visual representation of the AI model's search or inference process. At the bottom, there is a text input field with placeholder "Type something..." and a send button (two arrows).