
CAPSTONE PROJECT

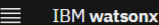
TRAVEL PLANNER AGENT

Presented By:

- 1. Jayahar J-Sathyabama Institute of Science and Technology-
B.E. Computer Science and Engineering**

CREATING A SANDBOX


- Creating a sandbox project.
- Naming the project as AgenticAI.


?🔔Jayahar Jayaraj's Account ▾Dallas ▾JJ

Create a project

Start with a new, blank project or select from where to import an existing project.

+ New

 Local file

 Sample

Define details

Name

AgenticAI

Description (optional)

What's the purpose of this project?

Tags (optional)

Add tags

Add tags to make projects easier to find. To add tags, separate them with commas and press Enter.

Define storage

① Select storage service

Cancel

Create

BUILDING AN AI AGENT

- Machine learning model has been set to Granite.
- AI Agent has been named as Travel Agent and then added a description to it.

The screenshot displays the IBM watsonx Agent Lab interface. The top navigation bar includes the IBM watsonx logo, an 'Upgrade' button, a help icon, a notification bell, and user account information for 'Jayahar Jayaraj's Account' in 'Dallas'. Below the navigation bar, the breadcrumb trail shows 'Projects / AgenticAI / Agent Lab'. The main interface is split into two panels: 'Build' on the left and 'Agent preview' on the right.

Build Panel:

- Model:** Set to 'granite-3-3-8b-instruct'.
- Setup:**
 - Name:** 'Travel Agent'.
 - Description:** 'I am your Travel Agent - here to help you with planning your trip efficiently and intelligently.' (96/100 characters).
 - Icon:** A robot head icon is selected from a set of options.
 - Placeholder image:** A diagram showing a network of nodes and connections, with a magnifying glass icon over one of the nodes.
 - Quick start questions:** A section to add up to 4 quick start questions that users can select.

Agent preview Panel:

- Header:** 'Travel Agent 08:50 PM'.
- Message:** 'Welcome to Travel Agent' followed by 'I am your Travel Agent - here to help you with planning your trip efficiently and intelligently.'
- Image:** A large version of the placeholder image from the Build panel.
- Input field:** A text input field with the placeholder text 'Type something...' and a send button.

GIVING INSTRUCTIONS

- Giving an instructions to perform the required operations.

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Build Panel:

- Model:** Set to 'granite-3-3-8b-instruct'.
- Framework:** Set to 'LangGraph'.
- Architecture:** Set to 'ReAct'.
- Instructions:** A text area containing the following text:
You are a helpful, knowledgeable, and polite travel agent assistant.
Your job is to:
1. Ask questions to understand the user's travel preferences (destination, budget, interests, dates, etc.)
- Advanced configuration:** A link to expand the configuration options.
- Knowledge:** A section for adding knowledge, currently empty.
- Tools:** A section for adding tools, currently empty.

Agent preview Panel:

- Travel Agent 08:50 PM:** A message icon followed by the text 'Welcome to Travel Agent' and 'I am your Travel Agent - here to help you with planning your trip efficiently and intelligently.'
- Diagram:** A flowchart illustrating the agent's workflow, featuring a central green circle with a blue magnifying glass icon.
- Input field:** A text input field with the placeholder 'Type something...' and a send button.

ADDING TOOLS

- Added tools like Google Search, DuckDuckGo Search, Wikipedia Search, Webcrawler and Weather to retrieve information.

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Build Panel:

- Buttons: 'Add a tool' and 'Create custom tool'.
- Model: 'granite-3-3-8b-instruct'.
- Added tools (5):
 - Google search:** Retrieve information from the internet with the Google search engine.
 - DuckDuckGo search:** Retrieve information from the internet with the DuckDuckGo search engine.
 - Wikipedia search:** Retrieve information from Wikipedia articles.
 - Webcrawler:** Retrieve information from a website.
 - Weather:** Retrieve the weather of a city.

Agent preview Panel:

- User:** You: 05:29 PM. Message: 'best places to stay in london'.
- Travel Agent:** 05:29 PM. Response: 'London offers a wide range of accommodations to suit different preferences and budgets. Here are some of the best areas to stay in, depending on what you're looking for:'.
- 1. Central London:**
 - West End (Soho, Mayfair, Coventry):** Ideal for theater-goers and those who want to be in the heart of the city. It's bustling with restaurants, bars, and shops.
 - Westminster (Westminster, Victoria):** Close to iconic landmarks like the Houses of Parliament, Big Ben, and the London Eye.
 - Covent Garden/Theatreland:** Perfect for theater lovers, with easy access to many West End shows.
- 2. South Bank:**
 - South Bank (Southwark):** Offers great views of the London Eye, Big Ben, and the Millennium Bridge. It's also close to the Tate Modern and Borough Market.
- 3. East London:**

A text input field at the bottom of the preview panel contains the placeholder text 'Type something...'.

TESTING THE TRAVEL AGENT

- Asking a travel plan to London for a week.
- And it gives the expected output like best places to visit, budget, real-time weather, etc.,

The screenshot displays the IBM watsonx Agent Lab interface. The top navigation bar includes the IBM watsonx logo, an 'Upgrade' button, a help icon, a notification bell, and user account information for 'Jayahar Jayaraj's Account' in 'Dallas'. Below the navigation bar, the breadcrumb path is 'Projects / AgenticAI / Agent Lab'. The main interface is split into two panels. The left panel, titled 'Build', shows the 'AI' model 'granite-3-3-8b-instruct'. It features buttons for 'Add a tool' and 'Create custom tool'. Under 'Added tools (5)', there are five tools listed: 'Google search' (Retrieve information from the internet with the Google search engine.), 'DuckDuckGo search' (Retrieve information from the internet with the DuckDuckGo search engine.), 'Wikipedia search' (Retrieve information from Wikipedia articles.), 'Webcrawler' (Retrieve information from a website.), and 'Weather' (Retrieve the weather of a city.). The right panel, titled 'Agent preview', shows a conversation log. The first message is from 'You' at 05:29 PM: 'best places to stay in london'. The second message is from 'Travel Agent' at 05:29 PM: 'London offers a wide range of accommodations to suit different preferences and budgets. Here are some of the best areas to stay in, depending on what you're looking for:'. The agent's response is structured as follows:
1. **Central London:**

- West End (Soho, Mayfair, Coventry):** Ideal for theater-goers and those who want to be in the heart of the city. It's bustling with restaurants, bars, and shops.
- Westminster (Westminster, Victoria):** Close to iconic landmarks like the Houses of Parliament, Big Ben, and the London Eye.
- Covent Garden/Theatreland:** Perfect for theater lovers, with easy access to many West End shows.

2. **South Bank:**

- South Bank (Southwark):** Offers great views of the London Eye, Big Ben, and the Millennium Bridge. It's also close to the Tate Modern and Borough Market.

3. **East London:**
At the bottom of the preview panel is a text input field with the placeholder 'Type something...' and a send button.

DEPLOYING

- Saving it and deploying the Travel Agent.

IBM watsonx

Upgrade

Jayahar Jayaraj's Account

Dallas

JJ



Deployment spaces /

Travel Agent

OverviewAssetsDeploymentsJobsManage

🔍 Search

↺

| Name | Type | Status | Asset | Asset type | Tags | Last modified | |
|--|--------|--|--------------|------------|---------------------|---|--|
|  Travel Agent | Online |  Deployed | Travel Agent | Ai service | <div>wx-agent</div> | 35 seconds ago Jayahar Jayaraj (You) | |

Items per page: 20 1-1 of 1 items

1 of 1 pages

FINAL OUTPUT

- Final output came after deployment.

IBM watsonx

Upgrade ? 🔔 Jayahar Jayaraj's Account Dallas JJ

Deployment spaces / Travel Agent / Travel Agent /


Travel Agent ✓ Deployed Online

API reference Test **Preview**

New chat +

J You 09:00 PM

give a travel plan for london

 Travel Agent 09:00 PM

Sure, here's a general travel plan for London based on a moderate budget.

Day 1: Arrival and Exploring Central London

- Arrive at London Heathrow or Gatwick Airport and take the Underground to your hotel in Central London.
- Check into your hotel and freshen up.
- Spend your afternoon exploring the British Museum, home to a vast collection of world art and artifacts.
- In the evening, enjoy a traditional pub dinner followed by a leisurely stroll around Covent Garden.


Day 2: Historical London

- Start your day with a visit to the iconic Tower of London. Explore the Crown Jewels and learn about the tower's history.


Type something...

➤

About this deployment ×

Name 


Travel Agent



Description 


Hi I am Travel Agent - here to help you with planning your trip efficiently and intelligently.


Deployment Details


Deployment ID: `afae68e2-d6e6-41...`

Serving name: 
No serving name.


Software specification: 
[runtime-24.1-py3.11](#) 


Hardware specification: 
Extra extra small: 1 CPU and 2 GB RAM

Copies: 
1

Tags 

wx-agent

Associated asset 

 [Travel Agent](#)

25d6ebb9-0da6-4206-9638-556e249b5b22



THANK YOU