
IBM HACKATHON PROJECT

ECO LIFESTYLE AGENT

Presented By:

Student name : Vaddi Indusree

College Name & Department : Presidency University and CSE

OUTLINE

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

PROBLEM STATEMENT

People struggle to adopt sustainable lifestyles due to scattered information on eco-friendly practices, products, and local resources.

Proposed Solution:

An AI-powered Eco lifestyle agent AI that uses IBM cloud lite services IBM granite services and to provide personalized tips, recommend green products and recycling options, and offer real-time, context-aware advice, making sustainable living easy and engaging

TECHNOLOGY USED

IBM cloud lite services (Watsonx.ai studio)

IBM Cloudant

IBM Cloud Functions

IBM Weather Company API

IBM Granite model

IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model
- IBM deployment space
- IBM identity and access management

WOW FACTORS

- This agent makes sustainable living simple by giving real-time tips, helping users cut their carbon footprint, and spreading eco-awareness.

Unique Features:

- Personalized eco-tips for daily habits.
- Weather-based advice for saving energy.
- Nearby resource finder for recycling & green stores.
- Goal tracking to monitor progress.
- Eco-product suggestions within budget.
- Community activities to join local green events.

END USERS

- Academic Researchers
- Research Institutions and Universities
- Industry R&D Teams
- Educators

RESULTS

The screenshot displays a web browser window with the URL `datapatform.cloud.ibm.com/ml-runtime/deployments/529242ee-850f-40cf-9f6f-d26de07cd732/chat?space_id=bbbd93fc-de2c-4a7...`. The browser tabs include 'Prompt Lab — Docs | IBM watsonx', 'Settings | IBM watsonx', and 'Eco Lifestyle Agent — Ecosystem'. The IBM Watsonx header shows an 'Upgrade' button, a help icon, a notification bell, and the user 'Indusree Vaddi's Account' in 'Dallas'. The breadcrumb trail is 'Deployment spaces / Ecosystem ai / Eco Lifestyle Agent /'. Below the header, the page title is 'Eco Lifestyle Agent' with status indicators 'Deployed' and 'Online'. Three tabs are visible: 'API reference', 'Test', and 'Preview' (which is active). The chat interface shows a message from 'Eco Lifestyle Agent 12:51 PM' with the text 'Welcome to Eco Lifestyle Agent' and 'Eco Lifestyle Agent is an AI-powered chatbot that helps people live a greener, more sustainable life'. Below the text is a diagram of a building floor plan with a green circle and a magnifying glass icon. At the bottom is a text input field with the placeholder 'Type something...'. A 'New chat +' button is located in the top right corner of the chat area.

RESULTS

The screenshot displays the IBM watsonx interface in a browser window. The address bar shows the URL: `dataplatform.cloud.ibm.com/ml-runtime/deployments/529242ee-850f-40cf-9f6f-d26de07cd732/chat?space_id=bbbd93fc-de2c-4a75-bb23-2e...`. The page title is "Eco Lifestyle Agent" and it indicates the agent is "Deployed" and "Online".

The interface has three tabs: "API reference", "Test", and "Preview". The "Preview" tab is active, showing a chat window. The chat window contains the following messages:

You 04:34 PM
"Suggest an eco-friendly daily routine."??

Eco Lifestyle Agent 04:34 PM
To suggest an eco-friendly daily routine, I'll provide you with a set of sustainable practices you can incorporate into your daily life. Here's a simple, green routine:

1. Morning:

- Start your day with a glass of water from your reusable water bottle instead of single-use plastic.
- Use a reusable coffee cup if you enjoy morning coffee.
- Opt for a shower instead of a bath to save water.

The chat window also includes a text input field with the placeholder "Type something..." and a send button.

RESULTS

The screenshot displays the IBM Watsonx web interface for the 'Eco Lifestyle Agent'. The browser tabs include 'Prompt Lab — Docs | IBM watsonx', 'Settings | IBM watsonx', and 'Eco Lifestyle Agent — Ecosystem'. The address bar shows the URL: `dataplatfom.cloud.ibm.com/ml-runtime/deployments/529242ee-850f-40cf-9f6f-d26de07cd732/chat?space_id=bbbd93fc-de2c-4a75-bb23-2e...`. The page header includes 'IBM watsonx', an 'Upgrade' button, a help icon, a notification bell, and user information for 'Indusree Vaddi's Account' in 'Dallas'. The breadcrumb trail is 'Deployment spaces / Ecosystem ai / Eco Lifestyle Agent /'. Below the title 'Eco Lifestyle Agent', there are status indicators 'Deployed' and 'Online'. Three tabs are visible: 'API reference', 'Test', and 'Preview' (which is active). A 'New chat +' button is in the top right. The chat history shows a user message at 04:35 PM: 'I feel overwhelmed about living sustainably. Can you guide me?'. The agent's response at 04:35 PM states: 'Absolutely, it's understandable to feel overwhelmed when considering a complete lifestyle shift towards sustainability. Here's a step-by-step guide to help you ease into an eco-friendly lifestyle:'. The guide includes two steps: '1. Start Small:' with a bullet point 'Choose one or two areas to focus on initially. This could be reducing plastic use, conserving water, or switching to energy-efficient light bulbs.', and '2. Educate Yourself:'. A text input field at the bottom contains the placeholder 'type something...'. A vertical scrollbar is visible on the right side of the chat area.

Deployment spaces / Ecosystem ai / Eco Lifestyle Agent /

Eco Lifestyle Agent

Deployed Online

API reference Test Preview

New chat +

You 04:35 PM

I feel overwhelmed about living sustainably. Can you guide me?

Eco Lifestyle Agent 04:35 PM

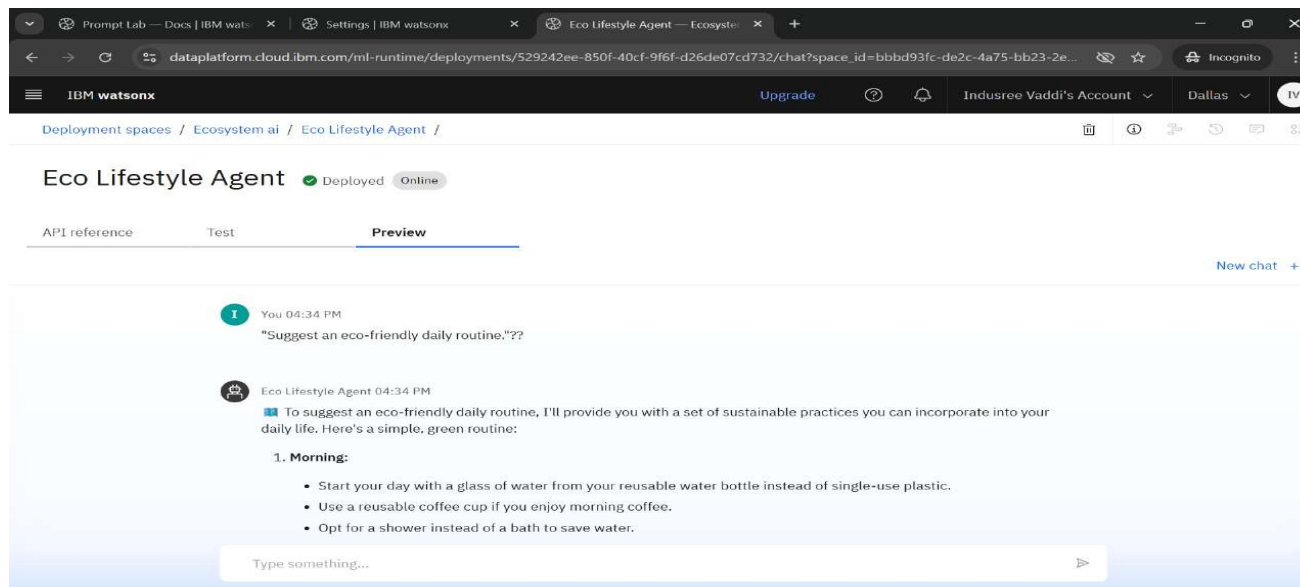
Absolutely, it's understandable to feel overwhelmed when considering a complete lifestyle shift towards sustainability. Here's a step-by-step guide to help you ease into an eco-friendly lifestyle:

1. Start Small:
 - Choose one or two areas to focus on initially. This could be reducing plastic use, conserving water, or switching to energy-efficient light bulbs.
2. Educate Yourself:

type something...

RESULTS

Deployed AI Agent



CONCLUSION

The agent can provide personalized eco-friendly recommendations, track progress toward sustainability goals, and suggest practical actions for greener living. It saves time by simplifying the search for local resources, eco-products, and green practices. Eco Lifestyle Agents enhance awareness, motivation, and impact, making sustainable living more accessible and achievable for everyone.

GITHUB LINK

- https://github.com/indusree10/Eco_lifestyle_agent

FUTURE SCOPE

- Multilingual Eco Support
- Voice-Activated Research Assistant
- Real-Time Collaboration Features
- Personalized Goal Tracking
- Integration with Eco Platforms
- AI-Assisted Lifestyle planning

IBM CERTIFICATIONS

In recognition of the commitment to achieve
professional excellence



indu sree vaddi

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



Issued on: Jul 19, 2025
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/5cee2c3d-0908-4e41-8da4-51f4735377e0>



7/25/25, 2:42 PM

Completion Certificate | SkillsBuild

IBM SkillsBuild

Completion Certificate



This certificate is presented to
indu sree vaddi

for the completion of

**Lab: Retrieval Augmented Generation with
LangChain**

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 25 Jul 2025 (GMT)

Learning hours: 20 mins

https://skills.yourlearning.ibm.com/certificate/ALM-COURSE_3824998

1/1

THANK YOU