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# INTERNSHIP PROJECT

## AGENTIC AI HEALTH SYMPTOM CHECKER

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# OUTLINE

- Problem Statement
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- Result
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- Future scope
- IBM Certifications

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# PROBLEM STATEMENT

Millions face confusion and misinformation when searching symptoms online, often leading to unsafe self-diagnosis and delayed care. There's a need for a reliable, multilingual, and intelligent assistant that understands natural symptom descriptions and guides users with safe, verified health information.

## **Proposed Solution:**

An AI-powered health checker that understands symptoms in natural language, offers safe advice using verified medical data, and guides users with urgency levels, home remedies, alerts and multilingual support — without making any diagnosis.

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# TECHNOLOGY USED

IBM Cloud Lite Services

Natural Language Processing (NLP)

Trusted Medical Sources (Like WHO)

IBM Granite model

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# IBM CLOUD SERVICES USED

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

# WOW FACTORS

This smart, multilingual AI health Symptom Checking Agent delivers safe, non-diagnostic symptom guidance in real time — personalized, accessible, and verified.

## Unique features:

- ✓ Natural language symptom interpretation.
- ✓ Urgency triage (mild, moderate, severe).
- ✓ Verified, non-diagnostic advice.
- ✓ Multilingual interaction.
- ✓ Real-time, safe, and user-friendly.
- ✓ Prevents misinformation and reduces panic.
- ✓ Promotes early action and awareness.

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# END USERS

- General public (All age groups).
- Rural and multilingual populations.
- Healthcare helpdesks and NGOs.
- Senior citizens and caregivers.
- Health awareness campaigns.
- Students & first-time symptom seekers.

# RESULTS

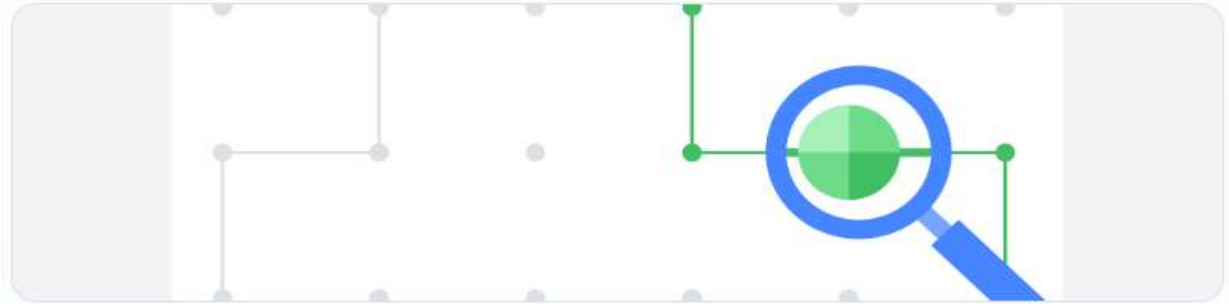
## Agent preview



Health Checker Agent 04:32 PM

Welcome to Health Checker Agent

I'm your AI Health checker buddy- tell symptoms, get advice, remedies & alerts, all just for you 🤖 !



### Sample questions

Suggest some home remedies



Urgency as per symptoms



Alerts as per urgency



Give advice as per symptoms



Type something...





# RESULTS

## Agent preview



You: 04:37 PM

Give me advice i have sore throat, cold, headache and fever



Health Checker Agent 04:37 PM

I understand you're experiencing a sore throat, cold, headache, and fever. Here's some general advice:

Common causes for these symptoms can include viral infections like the common cold or flu.

While these symptoms can be uncomfortable, they're usually not a cause for immediate concern, especially if you're not part of a high-risk group. However, if your symptoms worsen, or you experience difficulty breathing, chest pain, or high fever (over 103°F), seek medical attention.

Home remedies include:

- Staying hydrated: Drink plenty of fluids like water, herbal tea, or clear broths.
- Rest: Your body needs energy to fight off the infection.
- Over-the-counter pain relievers: Acetaminophen or ibuprofen can help with fever and discomfort.
- Throat lozenges or gargling salt water can soothe a sore throat.

To prevent future occurrences, maintain good hygiene practices like regular hand washing, avoid close contact with sick individuals, and clean frequently touched surfaces.

Generally, you should see a doctor if your symptoms persist for more than a week, or if you have underlying health conditions.

Disclaimer: This is not a diagnosis. Consult a doctor for serious or prolonged symptoms.

► How did I get this answer?



Type something...



# RESULTS

## Agent preview



You: 04:41 PM

suggest some home remedies for sore throat, cold, headache and fever



Health Checker Agent 04:41 PM

Here are some home remedies for your symptoms:

1. **Sore Throat:** Gargle with warm salt water. This can help reduce swelling and relieve discomfort. Honey and lemon in warm water can also soothe a sore throat.
2. **Cold:** Stay hydrated by drinking plenty of fluids. Warm liquids like herbal tea or broth can help relieve congestion. A humidifier can also help keep your throat and nasal passages moist.
3. **Headache:** Rest and relax. If possible, lie down in a quiet, dark room. Apply a cold compress to your forehead or the back of your neck. Over-the-counter pain relievers like ibuprofen or acetaminophen can also help.
4. **Fever:** Again, ensure you're well-hydrated. Lukewarm baths or applying cool, damp cloths to your forehead and wrists can help reduce fever.

Remember, these are just remedies to alleviate discomfort. If your symptoms persist for more than a week, or you have a high fever, severe headache, chest pain, or other worrying symptoms, seek medical attention immediately.

Disclaimer: This is not a diagnosis. Consult a doctor for serious or prolonged symptoms.

► How did I get this answer?



# RESULTS

## Deployed AI Agent

The screenshot displays the IBM Watsonx interface for a deployed AI agent named "Health Checker Agent". The agent is shown as "Deployed" and "Online". The interface includes a navigation bar with "API reference", "Test", and "Preview" tabs, with "Preview" currently selected. A "New chat" button is located in the top right corner of the chat area.

The chat history shows the following interaction:

- User:** You 04:54 PM  
I have a severe cold, headache and fever should I consult a doctor
- Health Checker Agent:** 04:54 PM  
Based on your symptoms (severe cold, headache, and fever), it's important to consult a doctor. These symptoms could indicate a more serious condition like the flu or a bacterial infection.  
  
While waiting for medical attention, you can try home remedies to alleviate your discomfort:
  - Stay hydrated by drinking plenty of fluids like water, herbal tea, or clear broths.
  - Get plenty of rest.
  - Over-the-counter medications such as acetaminophen or ibuprofen can help reduce fever and alleviate headache. Always follow the recommended dosage.  
However, if your symptoms worsen or don't improve after a few days, or if you experience difficulty breathing, chest pain, or other concerning symptoms, seek immediate medical attention.  
  
Disclaimer: This is not a diagnosis. Consult a doctor for serious or prolonged symptoms.  
  
► How did I get this answer?

At the bottom of the chat area, there is a text input field with the placeholder "Type something..." and a send button.

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# CONCLUSION

- The AI agent simplifies access to verified health information for all users, including non-tech-savvy individuals.
- It provides symptom-based guidance without making diagnoses, ensuring safety and clarity.
- By promoting early detection and awareness, it reduces panic and delays in care-seeking.
- Multilingual support and a user-friendly design make it inclusive, empowering people to take informed health actions.

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## GITHUB LINK

- <https://github.com/ArpitaChaudhary111>

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# FUTURE SCOPE

- Voice interaction and accessibility integration.
- Wearable health data integration (IOT).
- Symptom tracking over time.
- Geo-aware doctor and hospital recommendations.
- Support for chronic condition monitoring.
- Mental health check-ins.

# IBM CERTIFICATIONS



IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Arpita Chaudhary

for the completion of

# **Lab: Retrieval Augmented Generation with LangChain**

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

**Completion date:** 17 Jul 2025 (GMT)

**Learning hours:** 20 mins





# THANK YOU