
IBM SKILL BUILD PROJECT

HEALTH ASSISTANCE AGENT

Presented By:

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OUTLINE

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

PROBLEM STATEMENT

- **Problem Statement :**

Users often struggle to understand their health conditions due to vague symptoms, misinformation, and language barriers. There is a need for a reliable AI-based solution that offers symptom analysis, accurate guidance, and referrals while avoiding self-diagnosis, especially in regions with limited access to healthcare professionals or verified medical information.

- **Proposed Solution :**

Develop an Agentic AI Health Symptom Checker that analyzes user-input symptoms in natural language, retrieves verified medical data from trusted sources, and provides probable conditions, urgency levels, preventive care, and referral advice. It supports multiple languages, promotes early detection, and empowers users with accurate, educational health recommendations.

TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

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

WOW FACTORS

- Supports natural language input, multi-language interaction, and urgency-based recommendations. Retrieves verified data from WHO and trusted portals. Promotes safe, educational guidance over self-diagnosis, enhancing early detection and informed health actions—especially in remote or underserved regions.
- **Unique Features :**
Enables personalized symptom analysis with age and region context, voice input/output for accessibility, and integration with telehealth or nearby clinics. Offers daily wellness tips, outbreak alerts, and ensures data privacy through encrypted, on-device processing—making it both user-centric and medically reliable.

END USERS

- **General Public** – Individuals seeking quick, reliable health insights without visiting a doctor.
- **Rural & Underserved Communities** – People with limited access to healthcare professionals or clinics.
- **Elderly & Visually Impaired** – Users needing voice-based, accessible health assistance.
- **Parents & Caregivers** – Concerned about children's symptoms or elderly care.
- **Multilingual Populations** – Users who prefer interacting in regional or native languages.
- **Travelers & Migrants** – People needing quick health info in unfamiliar locations or languages.
- **Public Health Agencies** – For disseminating verified, educational health advice at scale.

RESULTS

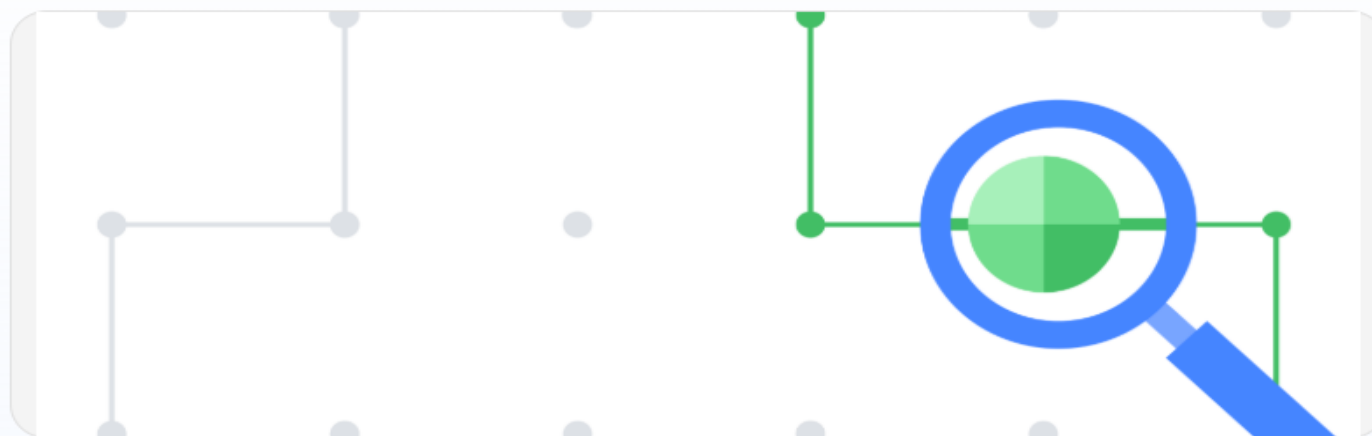
Agent preview



Health assistance agent 03:19 PM

Welcome to Health assistance agent

Ask me any queries related to health



|Type something...



RESULTS

[Deployment spaces](#) / [Health assistance agent](#) / [Health assistance agent](#) /



Health assistance agent ✓ Deployed Online

API reference

Test

Preview

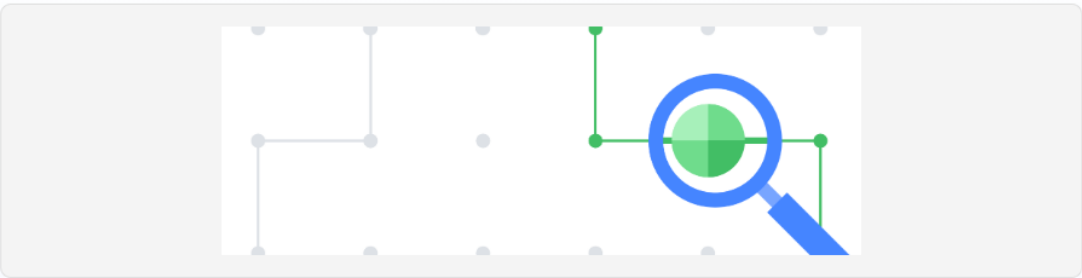
New cha



Health assistance agent 03:25 PM

Welcome to Health assistance agent

Ask me any queries related to health



Type something...



RESULTS

Navigation Menu

es / Health assistance agent / Health assistance agent /

Health assistance agent ✓ Deployed Online

API reference

Test

Preview



You 03:26 PM

I have sore throat



Health assistance agent 03:26 PM

I'm sorry to hear that you're not feeling well. A sore throat can be caused by various factors, including viral infections like the common cold or flu, bacterial infections like strep throat, dryness, irritants in the air, or even allergies.

Here are some general suggestions:

1. Stay hydrated: Drink plenty of fluids to keep your throat moist. Water, herbal teas, and warm liquids can soothe a sore throat.
2. Rest your voice: Avoid talking too much or whispering, as both can strain your vocal cords.
3. Use a humidifier: Moist air can help soothe a sore throat.
4. Over-the-counter remedies: Throat lozenges, sprays, or rinses can provide temporary relief.
5. Saltwater gargle: Gargling with warm salt water can help reduce swelling.

Please note that these are general recommendations and may not apply to your specific situation. If your sore throat is severe,

Type something...



CONCLUSION

- The Agentic AI Health Symptom Checker is a transformative tool that empowers individuals with accessible, accurate, and multilingual health guidance. By combining trusted medical data, intelligent symptom analysis, and personalized recommendations, it bridges the gap between awareness and action—promoting early detection, reducing misinformation, and supporting healthier communities worldwide.

GITHUB LINK

- LINK: <https://github.com/chandrakanth1-1/Health-assistance-agent>

FUTURE SCOPE

- Wearable Integration
- AI-Powered Health Monitoring
- Mental Health Support
- EMR Integration
- Disease Outbreak Detection

IBM CERTIFICATIONS

In recognition of the commitment to achieve
professional excellence



Karre Chandrakanth

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



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Attach your RAG LAB certificate here

IBM SkillsBuild

Completion Certificate



This certificate is presented to
Karre Chandrakanth

for the completion of

**Lab: Retrieval Augmented Generation with
LangChain**

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 24 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU