IBM HACKATHON PROJECT

AGENTIC AI HEALTH SYMPTOM CHECKER

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OUTLINE

- Problem Statement
- Technology used
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PROBLEM STATEMENT

Millions face difficulty understanding their health conditions early due to limited access to accurate, real-time, and understandable medical information.

Manual self-diagnosis often leads to misinformation and delays in care.

Proposed Solution:

An **Agentic Al Health Symptom Checker** that uses natural language understanding and verified medical data to:

- Analyze symptoms
- Suggest possible causes
- Provide home remedies and care tips
- Advise when to consult a doctor



TECHNOLOGY USED

- •IBM Cloud Lite Services
- •IBM Granite Foundation Model
- Natural Language Processing (NLP)
- •Retrieval Augmented Generation (RAG)
- •Multilingual AI Chat Interface



IBM CLOUD SERVICES USED

- •IBM Watsonx AI Studio
- •IBM Watsonx AI Runtime
- •IBM Cloud Agent Lab
- Granite Models for medical reasoning



WOW FACTORS

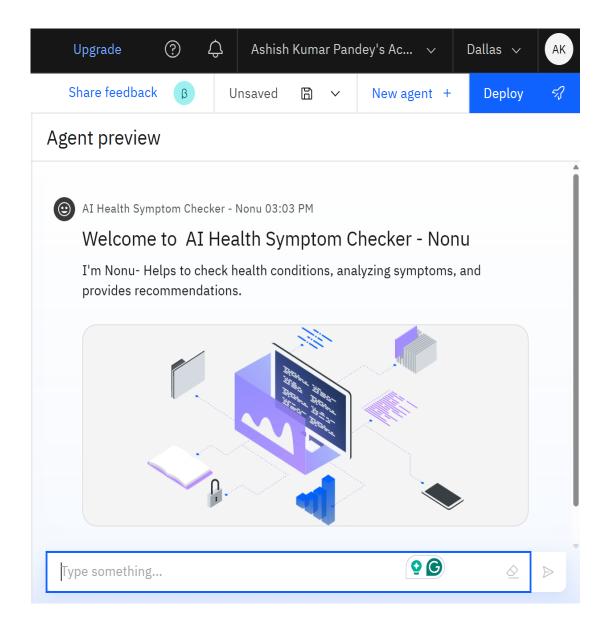
- Natural language input: "I have chest pain and a mild fever"
- •Medical-grade, trustworthy output using WHO, CDC, and journal data
- Multilingual symptom understanding
- Preventive care tips and urgency rating
- Referral to telemedicine or emergency care as needed
- Avoids risky self-diagnosis while educating users



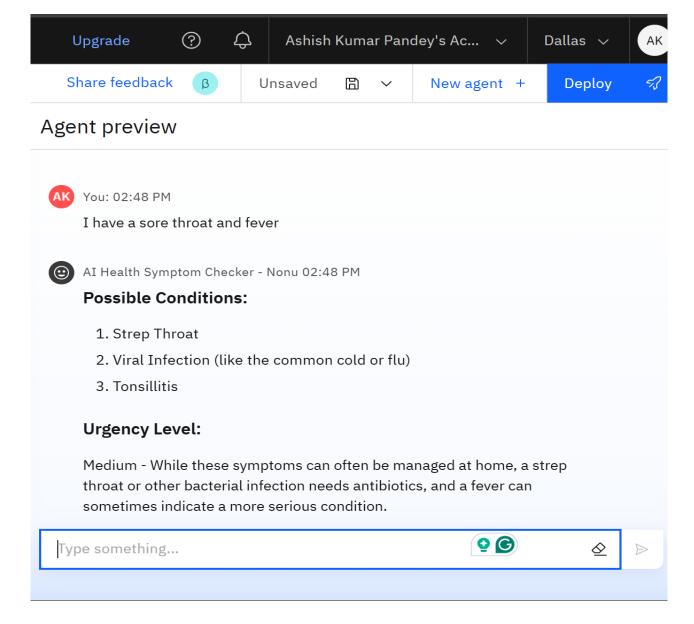
END USERS

- General Public
- Remote & Rural Health Seekers
- Primary Health Workers
- NGOs & Health Volunteers
- Students & Elderly Populations











Agent preview



You: 03:06 PM

"I have a sore throat and fever



AI Health Symptom Checker - Nonu 03:06 PM

Possible Conditions:

- 1. Strep Throat
- 2. Viral Infection (like the common cold or flu)
- 3. Tonsillitis

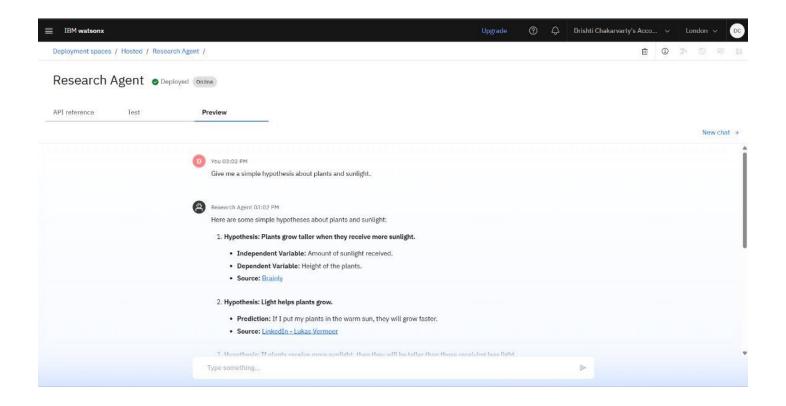
Urgency Level: Medium - While these symptoms can be associated with less serious conditions like a viral infection, they can also indicate a more serious condition such as strep throat.

Home Remedies or Preventive Advice:

- Stay hydrated by drinking plenty of fluids. Warm liquids like soup or herbal tea can soothe a sore throat.
- Use throat lozenges or hard candies to help soothe the throat.



Deployed AI Agent





CONCLUSION

The Al Health Symptom Checker helps users:

- Understand symptoms safely
- Take informed actions
- Access verified, multilingual, and easy-to-understand guidance
- Promotes early detection and reduces misinformation



GITHUB LINK

GitHub Link: https://github.com/Ashishkr-pandey/-Agentic-Al-Health-Symptom-Checker-



FUTURE SCOPE

- Voice-activated health assistant
- Integration with wearables (heart rate, temperature)
- Personalized health records sync
- Telemedicine integration
- Offline Mode for rural deployment
- Chronic illness tracker



IBM CERTIFICATIONS

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7/26/25, 5:11 PM

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Completion Certificate



This certificate is presented to

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for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 26 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU

