CAPSTONE PROJECT

SYMPSERVE AI AGENT

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OUTLINE

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PROBLEM STATEMENT

Individuals often face difficulties in understanding their health conditions due to the overwhelming amount of complex medical information, lack of access to reliable resources, or delayed consultations with healthcare professionals. Self-diagnosis from unverified sources can lead to anxiety or mismanagement of health issues.

Proposed Solution:
SympServe AI is a health advisory agent powered by Natural Language Processing (NLP) and Large Language Models (LLMs). It interacts with users in natural language to assess symptoms, provide preliminary health insights, suggest lifestyle improvements, and recommend when to seek professional medical advice. By limiting its scope strictly to health-related queries, it ensures focused, ethical, and context-aware guidance for better personal health understanding and decision-making.

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

SympServe AI transforms the way individuals approach their personal health by offering instant, intelligent, and empathetic guidance. It empowers users with AI-driven health insights that were once accessible only through time-consuming consultations or vague internet searches. This agent helps bridge the gap between curiosity and clarity, promoting proactive well-being.

Unique features:

-Symptom Interpretation: Converts user-described symptoms into probable health conditions using NLP.

- Health Risk Assessment: Flags potentially serious issues and recommends immediate attention if necessary.

- Personalized Advice: Offers lifestyle tips and general health suggestions tailored to user inputs.

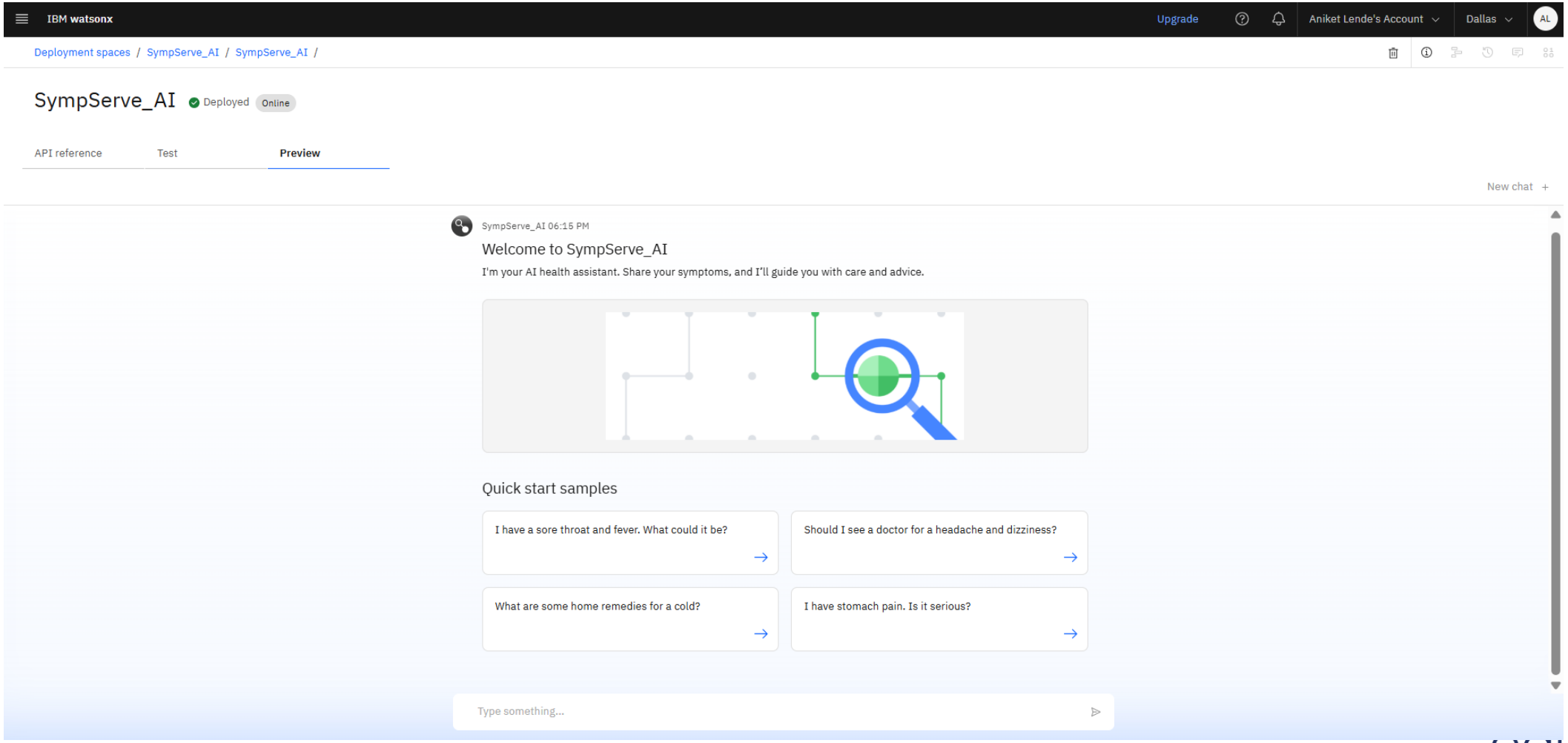
- User-Friendly Interface: Chat-based design makes health information accessible without medical jargon.

END USERS

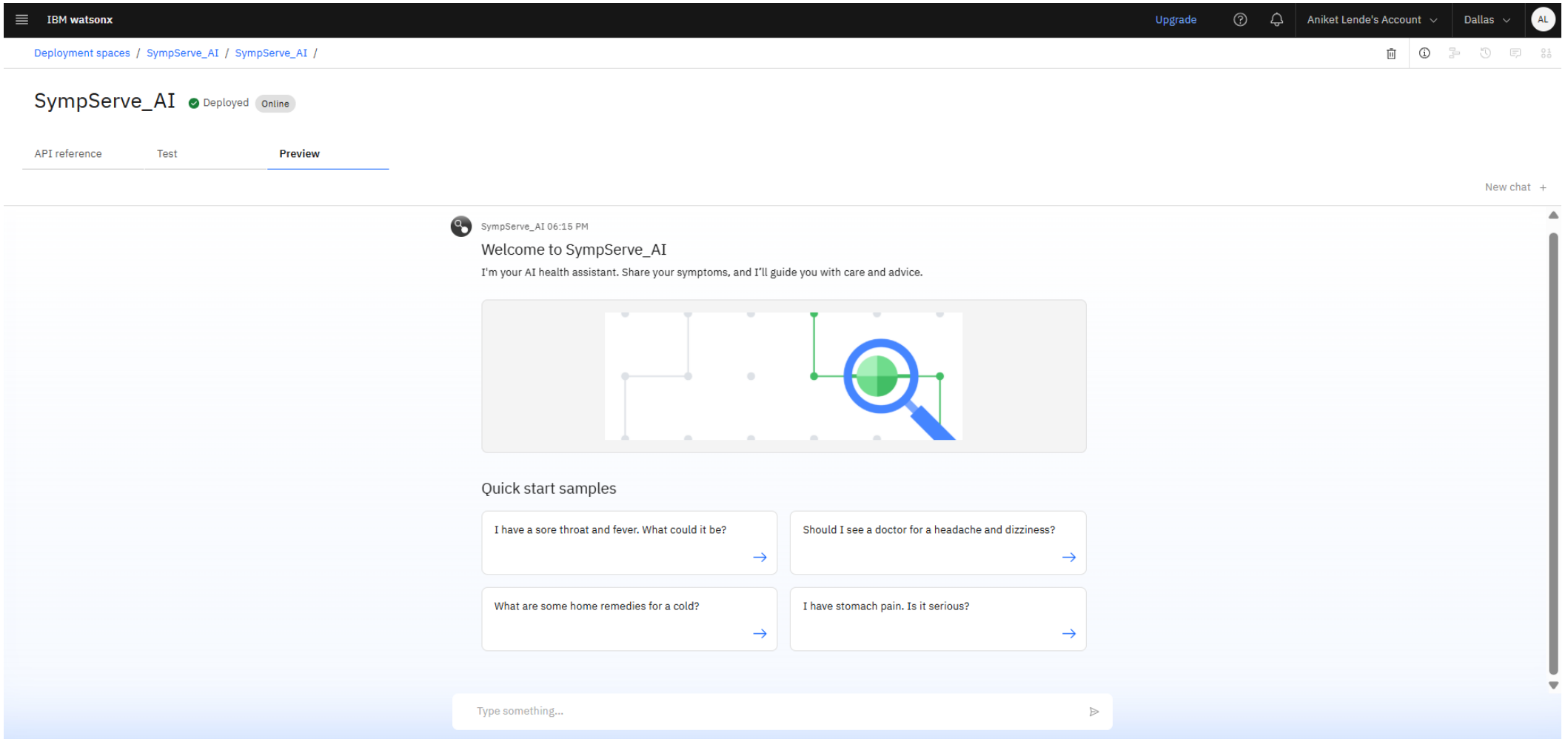
- Individuals Seeking Preliminary Health Guidance
- Health & Wellness Enthusiasts
- Rural or Underserved Populations
- Primary Caregivers & Family Members
- Health-Tech Startups & NGOs

RESULTS

SympServe AI Agent



RESULTS



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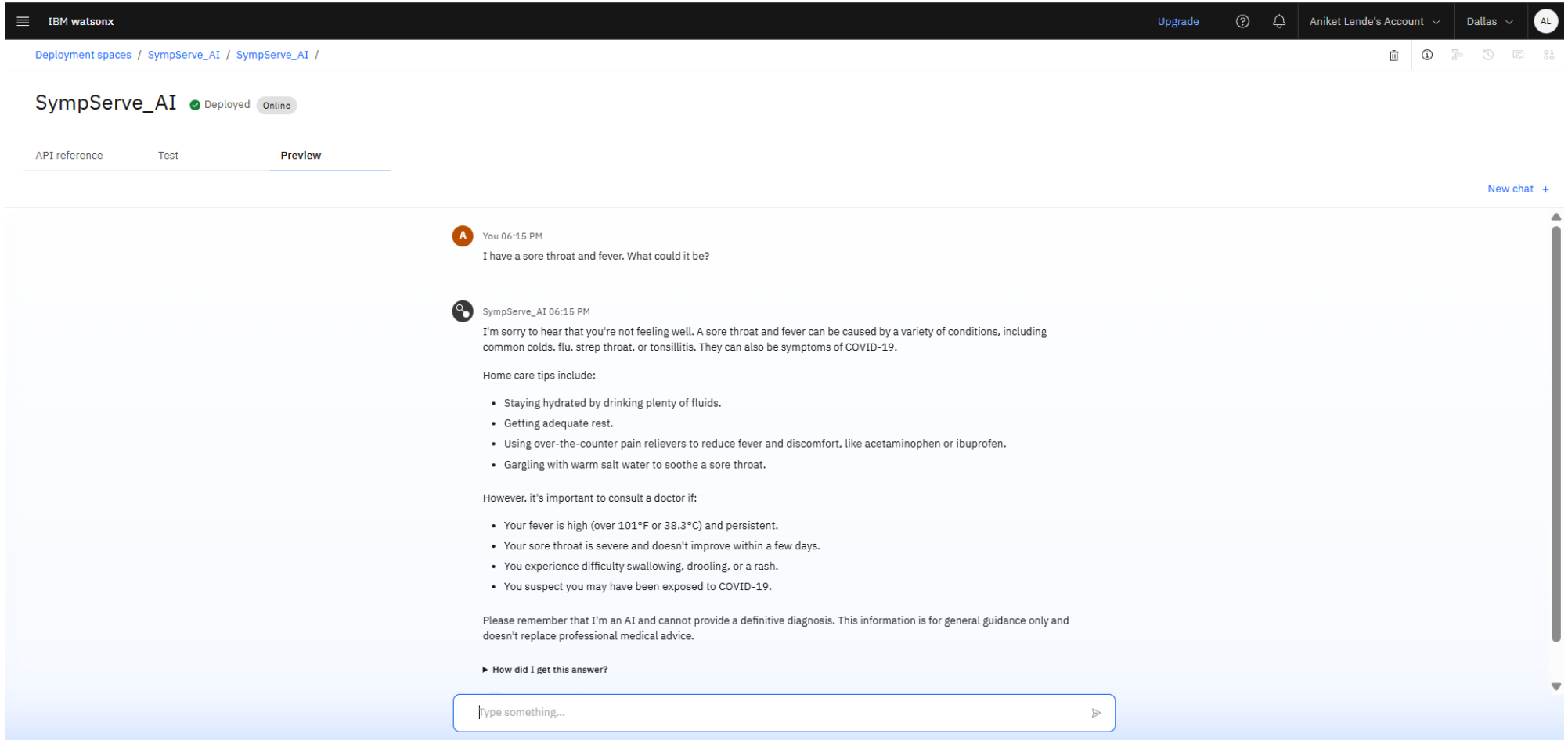
RESULTS



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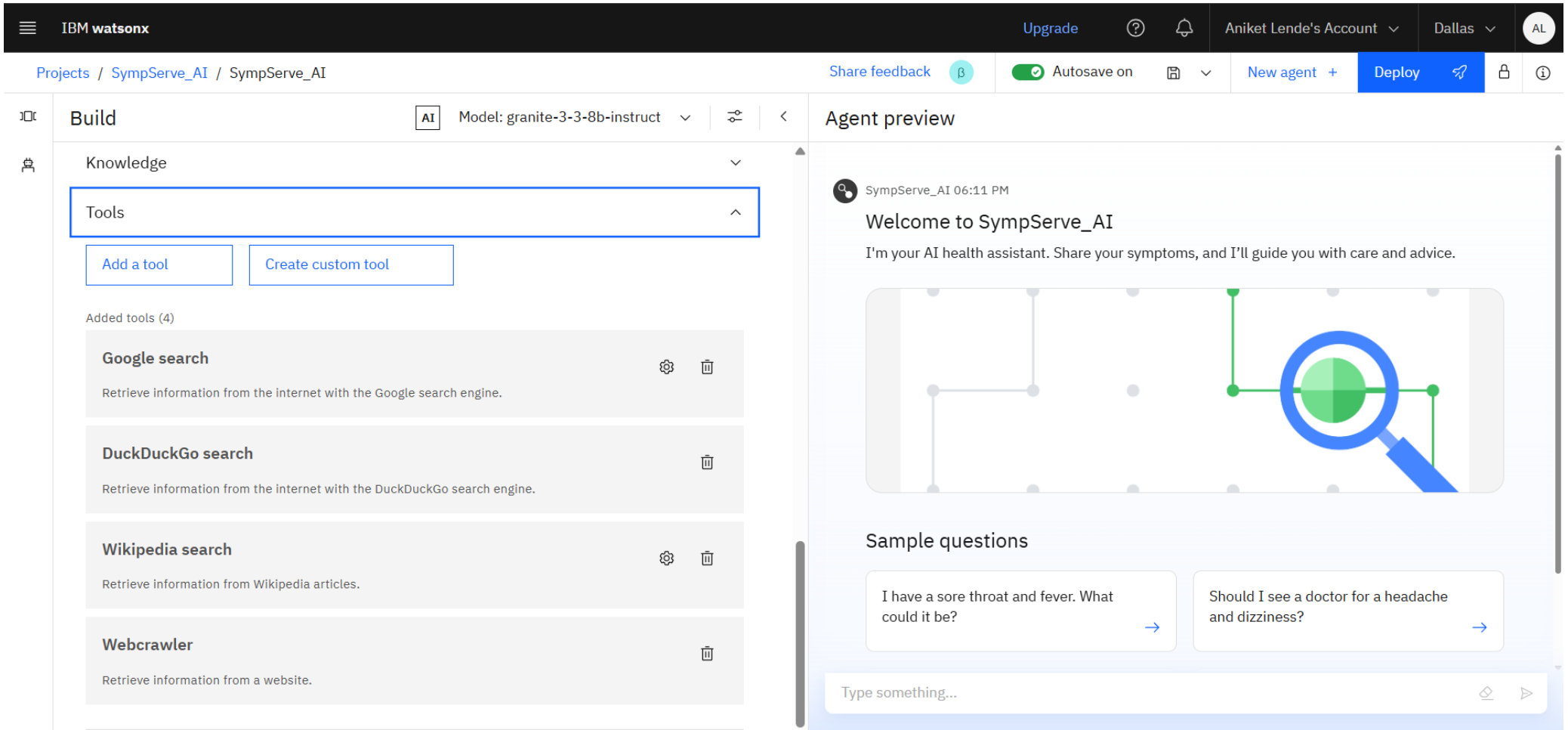
RESULTS



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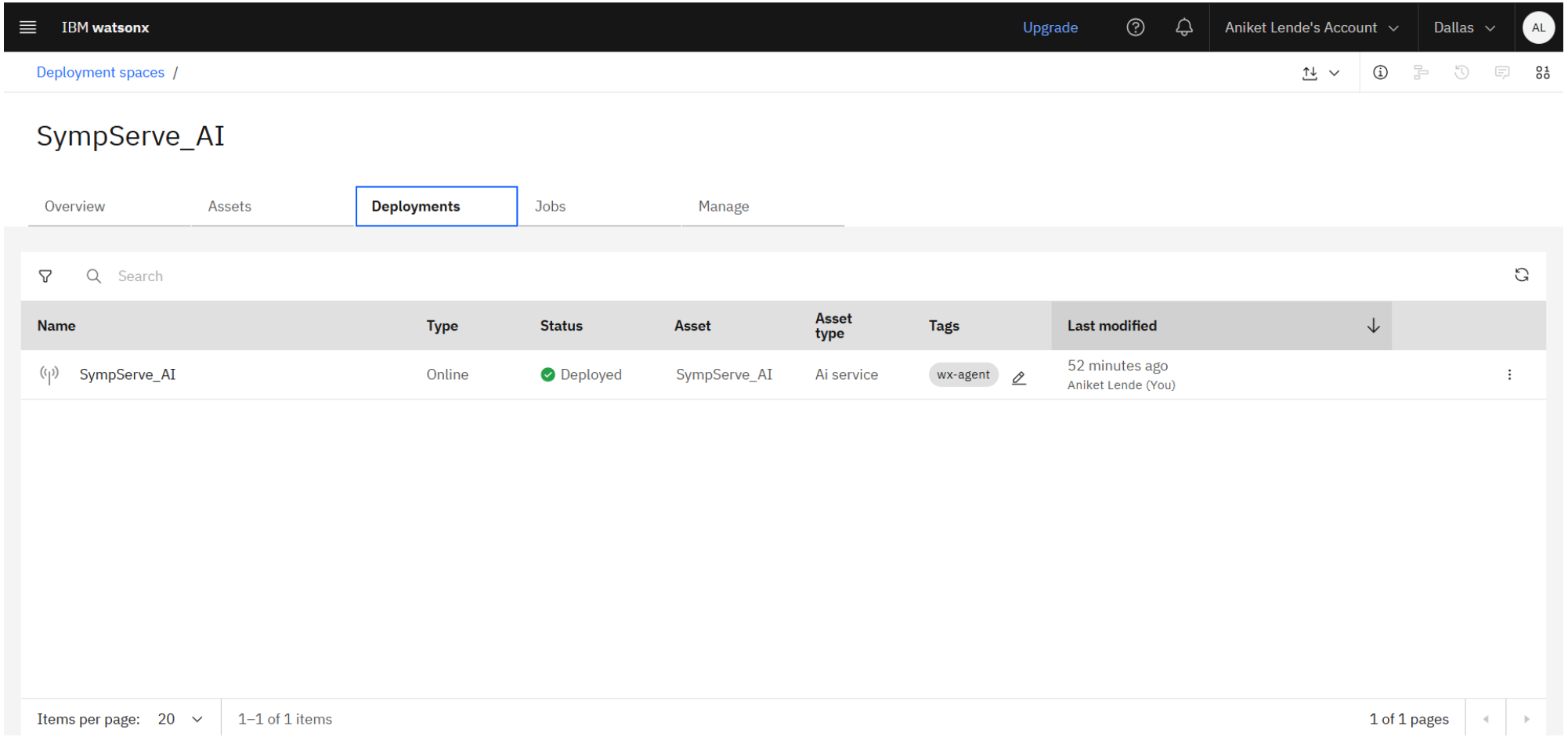
RESULTS

Deployed AI Agent



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CONCLUSION

- SympServe AI empowers users with accessible, AI-driven preliminary health insights—offering symptom analysis, wellness suggestions, and decision support.
- It reduces reliance on unverified online information and bridges gaps in early diagnosis and health awareness.
- By automating initial assessments and providing intelligent, empathetic recommendations, SympServe enhances both personal well-being and public health engagement.

GITHUB LINK

https://github.com/Aniket-M-L/SympServe_AI

FUTURE SCOPE

- **Multilingual Symptom Support:** Expand accessibility by enabling symptom analysis and advice in multiple languages.
- **Voice-Activated Health Assistant:** Allow users to describe symptoms via speech for a hands-free experience, Real-Time Collaboration Features
- **Wearable Device Integration:** Sync with smartwatches and fitness trackers for real-time health data insights.Integration with Publishing Platforms.

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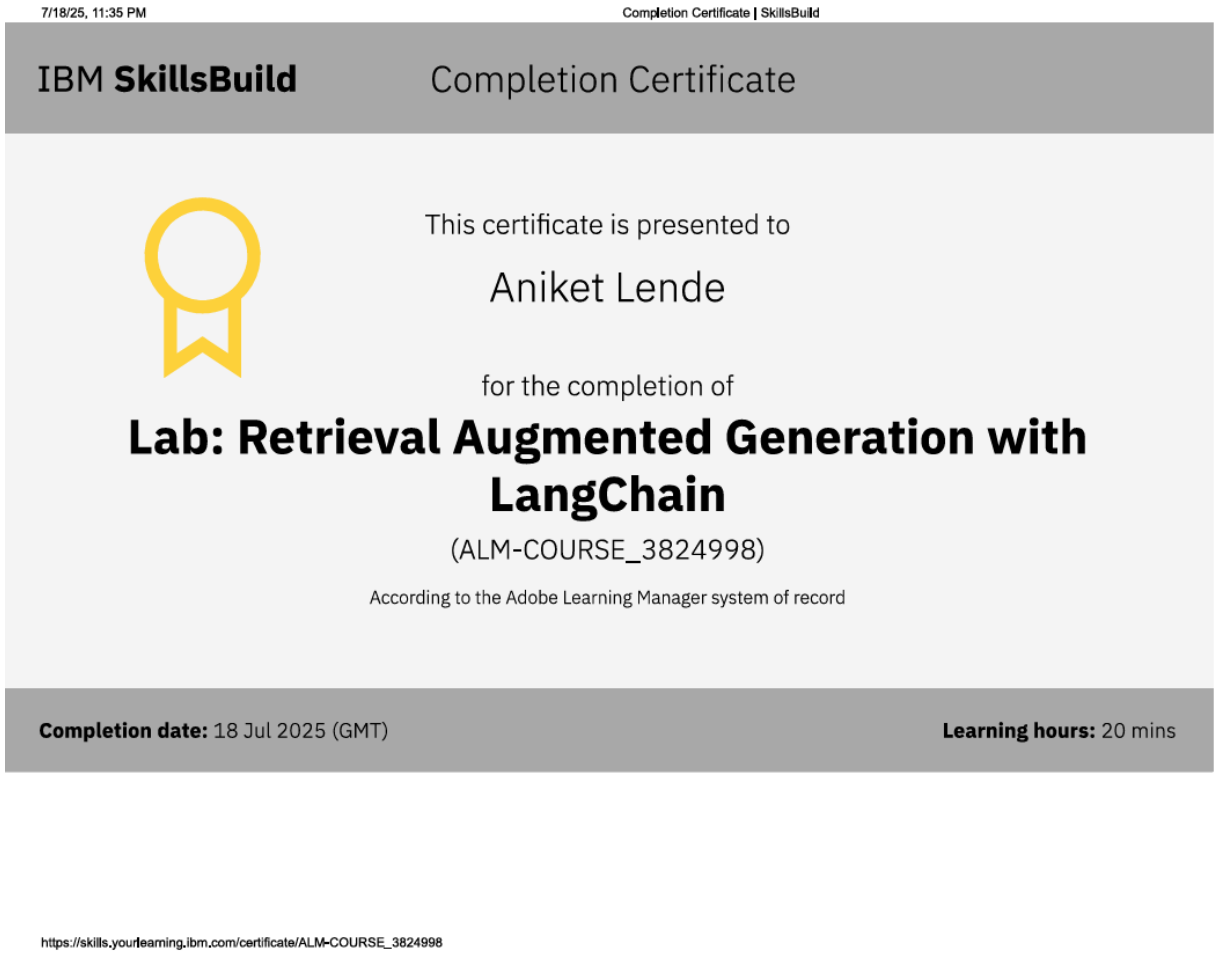

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IBM **SkillsBuild** Completion Certificate

This certificate is presented to

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Lab: Retrieval Augmented Generation with LangChain

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THANK YOU

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