IBM HACKATHON PROJECT

FitnessBuddy AI AGENT

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OUTLINE

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



PROBLEM STATEMENT

In today's fast-paced world, many individuals struggle to maintain a healthy lifestyle due to:

- Lack of personalized fitness and nutrition guidance
- Rigid schedules and time constraints
- High costs of gym memberships and coaching
- Inconsistent motivation and poor habit-building

Traditional solutions fail to adapt to personal routines, goals, and accessibility needs. There is a growing demand for a 24/7, intelligent, and user-friendly fitness companion that delivers real-time support.



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

24/7 Personalized Fitness Assistant

Available anytime, anywhere—adapts to the user's schedule and lifestyle without the need for expensive equipment or subscriptions.

Al-Generated Workouts & Meals

Uses IBM Granite to dynamically recommend workouts and healthy meals based on user input like duration, fitness level, or goals.

No Equipment? No Problem!

Tailors routines that can be done at home with zero or minimal equipment.

Motivational & Habit-Building Coach

Sends reminders, motivational quotes, and tracks habits—making it more than just a workout planner.

Powered by IBM Cloud

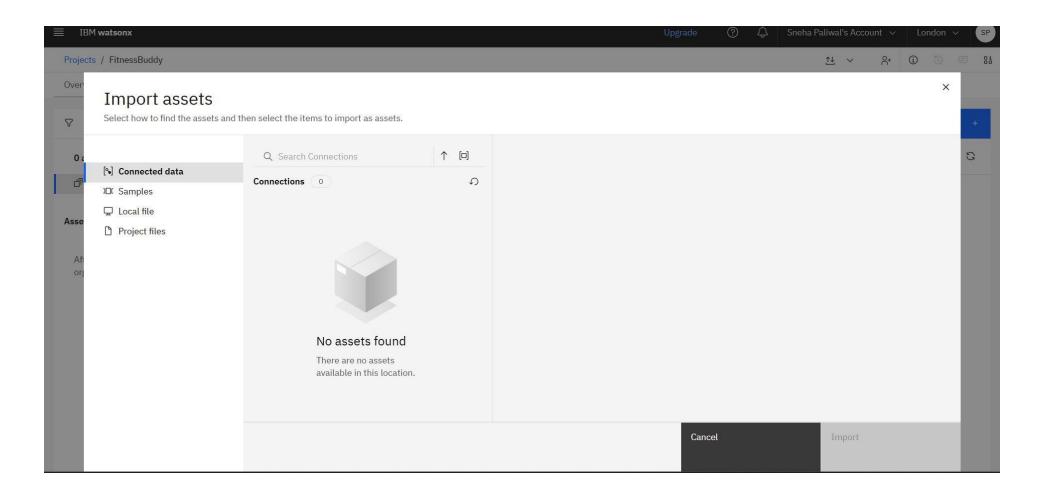
Fully built using IBM Watsonx, Granite, and Cloud Lite—scalable, smart, and secure.



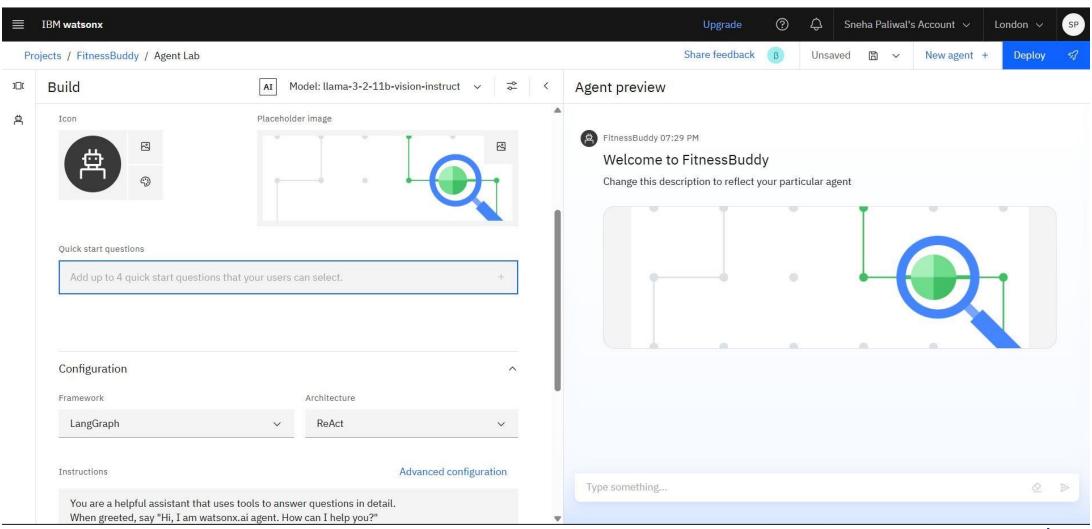
END USERS

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





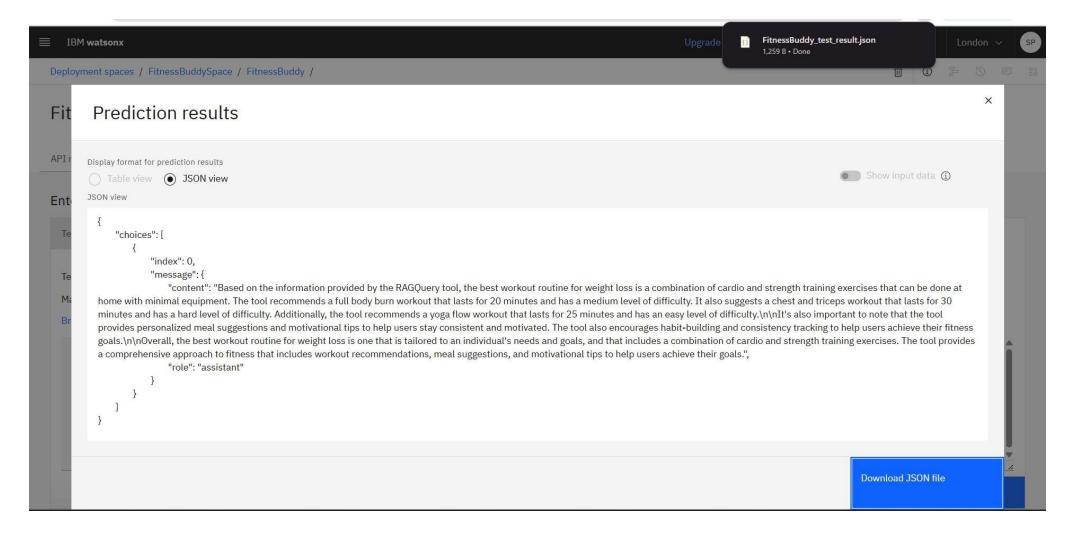






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FitnessBuddy Open Deployed Online						
API reference Test Preview						
Enter input data						
Text JSON						
Text input and .csv files are not supported for this deployment because it does not have an input schema defined.						
Manually enter or upload a file containing input data in JSON format. Max file size is 50 MB.						
Browse local files 7 Search in space 7						
<pre>{ "messages": [</pre>						
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CONCLUSION

FitnessBuddy is an intelligent, Al-powered virtual assistant that helps users stay fit, eat better, and stay motivated—anytime, anywhere.

Built using IBM Watsonx and Granite Foundation Models, it offers personalized guidance without the cost or rigidity of traditional fitness solutions.

- It empowers users by:
- Recommending smart workouts and meal plans
- Encouraging habit-building and wellness consistency
- Making health accessible to beginners and busy individuals alike



GITHUB LINK

https://github.com/Aryan021/Fitness-Buddy



FUTURE SCOPE

Voice Assistant Integration

Enable hands-free interaction via voice commands (e.g., "Start my 10-minute workout").

Wearable Device Support

Integrate with smartwatches and fitness bands for live tracking of steps, heart rate, calories, etc.

Progress Analytics Dashboard

Provide visual reports of weekly goals, habits, nutrition, and workout consistency.

Mental Wellness & Meditation Support

Add Al-generated meditation routines, breathing exercises, and mood tracking.

* Community & Challenges

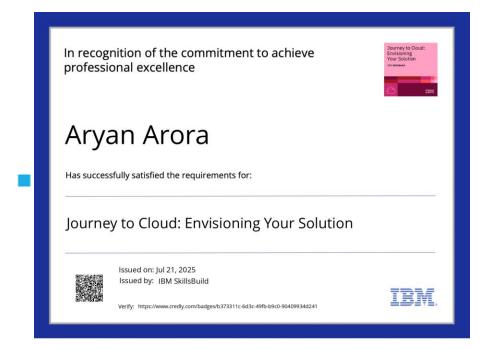
Enable users to participate in fitness challenges and share progress with friends or groups.

Multilingual & Regional Customization

Support content in multiple Indian languages and meal plans tailored to regional diets.



IBM CERTIFICATIONS







IBM SkillsBuild

Completion Certificate



This certificate is presented to

Aryan Arora

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

