IBM HACKATHON PROJECT

FITNESS BUDDY AI

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OUTLINE

- Problem Statement
- Technology used
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- IBM Certifications



PROBLEM STATEMENT

Many individuals—especially working professionals, students, and homemakers—struggle to maintain a consistent and healthy lifestyle due to lack of personalized fitness guidance, motivation, and time. Traditional fitness solutions often require expensive memberships, rigid schedules, or in-person consultations that don't adapt well to individual needs or daily routines.

Proposed Solution:

An Al-powered Fitness Buddy that uses Natural Language Processing (NLP) and Al-based personalization to offer users customized home workouts, healthy meal suggestions, motivational tips, and habit-building guidance—all in a conversational format



TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model



IBM CLOUD SERVICES USED

- IBM Cloud Watsonx Al Studio
- IBM Cloud Watsonx Al runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model



WOW FACTORS

This Al fitness agent will help users save time, stay consistent, and improve their overall health by offering personalized workouts, meal suggestions, and motivational support—all accessible through a simple chat interface.

It promotes healthy habits, reduces dependency on rigid schedules or expensive trainers, and empowers users to take control of their well-being with ease and flexibility.

- Personalized workout routines based on user goals and preferences
- Nutritious meal suggestions tailored to dietary needs (e.g., high-protein, vegan, low-carb)
- Daily motivation quotes and mental wellness tips
- Habit tracking to build consistency over time
- Fitness goal recommendations (weight loss, muscle gain, endurance)
- Progress encouragement and check-ins to keep users engaged

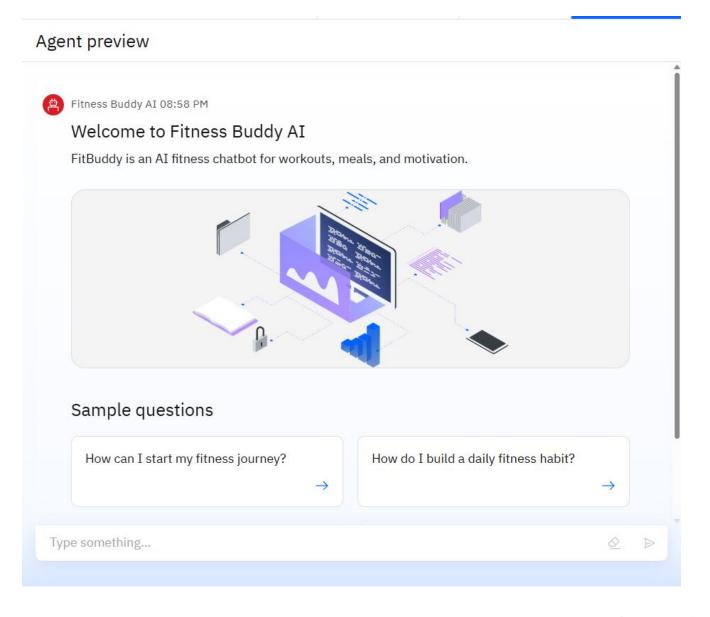


END USERS

- Health-conscious Individuals
- Gym Trainers & Fitness Coaches
- Nutritionists
- Medical & Wellness Experts
- Rehabilitation Centers
- College Athletes or Sports Departments



- Clean, welcoming interface
- Smart starter questions for users
- Chat-based fitness guidance
- Visuals that reinforce health theme





- Human-like replies
- Clear and structured answers
- Beginner-friendly tips
- Motivational tone
- Quick responses

Agent preview



SS You: 09:31 PM

How do I build a daily fitness habit?



Fitness Buddy AI 09:31 PM

Building a daily fitness habit can be challenging, but with the right approach, it's achievable! Here are some tips:

- Start Small: Begin with short, manageable workouts. Even 10-15 minutes a day can make a difference.
- 2. Consistency is Key: Choose a specific time each day for your workout and stick to it.
- Set Clear Goals: Having a goal, like losing weight or gaining strength, can keep you motivated.
- Track Your Progress: Use a fitness app or journal to record your workouts. Seeing your progress can be motivating.
- 5. **Make it Enjoyable**: Find an activity you love. If you enjoy what you're doing, you're more likely to stick with it.
- 6. **Stay Accountable**: Share your fitness goals with a friend or family member. They can help keep you on track.

Remember, it's okay to have off days. The important thing is to get back on track the next day. Keep going, you're doing great!

► How did I get this answer?

Type something...







- Delivered 10 motivational quotes instantly
- Covers mental strength & discipline
- Adds inspiration and encouragement to user journeys
- Engaging and varied—not just generic line

Agent preview



You: 09:29 PM

Give me a fitness motivation 10 quote



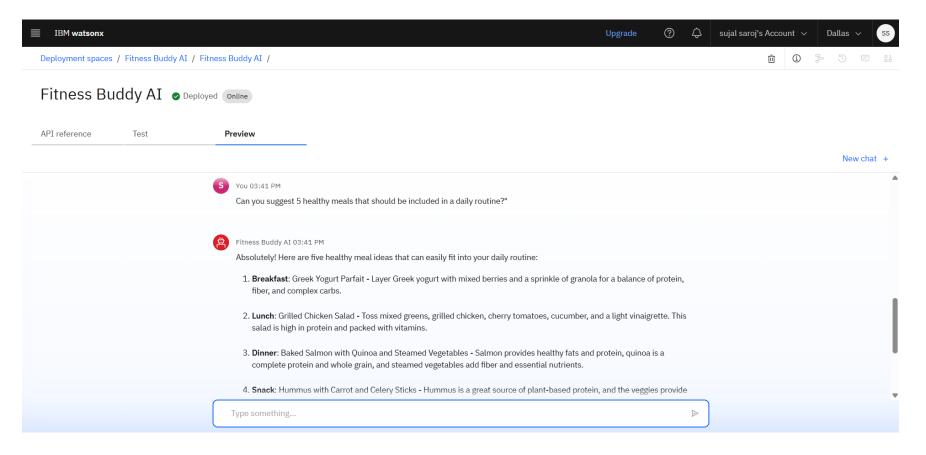
Fitness Buddy AI 09:29 PM

Here are 10 motivational fitness quotes for you:

- 1. "The last three or four reps is what makes the muscle grow. This area of pain divides the champion from someone else who is not a champion." Arnold Schwarzenegger
- 2. "Strength does not come from physical capacity. It comes from an indomitable will." Mahatma Gandhi
- 3. "You, yourself, as much as anybody in the entire universe, deserve your love and affection." Buddha
- 4. "It's not about being the best. It's about being better than yesterday." Unknown
- 5. "The difference between a successful person and others is not a lack of strength, not a lack of knowledge, but rather a lack of will." Vince Lombardi
- 6. "Don't watch the clock; do what it does. Keep going." Sam Levenson
- 7. "I can't give up. I have too much to do." Zig Ziglar
- 8. "You miss 100% of the shots you don't take." Wayne Gretzky
- 9. "Believe you can and you're halfway there." Theodore Roosevelt
- 10. "Strong people don't put others down. They lift them up. Strong people don't feel the need to explain themselves because they know they are right." C.S. Lewis



Deployed FitBuddy Al





CONCLUSION

- FitBuddy AI can generate workout plans, suggest fitness goals, and even build personalized routines.
- It saves time by automating tasks like meal planning, progress tracking, and daily reminders.
- FitBuddy enhances motivation, consistency, and efficiency in both beginner and advanced fitness journeys.



GITHUB LINK

https://github.com/sujalsaroj/IBM-HACKATHON-FitBuddy



FUTURE SCOPE

- Multilingual support for users across different regions.
- Voice-enabled assistant for hands-free interaction.
- Real-time collaboration with fitness coaches and peers.
- Smart progress tracking with Al-based plateau detection.
- Integration with wearables and fitness apps.
- Personalized workout and nutrition plans powered by Al.



IBM CERTIFICATIONS

In recognition of the commitment to achieve professional excellence



Sujal Saroj

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



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Completion Certificate



This certificate is presented to

Sujal Saroj

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 28 Jul 2025 (GMT)

Learning hours: 20 mins



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THANK YOU

