### **IBM AICTE PROJECT**

# FITNESS BUDDY AGENT

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## **OUTLINE**

- Problem Statement
- Technology used
- Wow factor
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- Conclusion
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- IBM Certifications



# PROBLEM STATEMENT

- In today's fast-paced world, many individuals struggle to maintain a healthy lifestyle due to lack of personalized guidance, time constraints, and inconsistent motivation. Traditional fitness solutions often require expensive subscriptions, in-person consultations, or rigid schedules that don't adapt to personal preferences or daily routines. There is a growing need for an accessible, friendly, and intelligent virtual assistant that can provide on-demand fitness advice, healthy lifestyle suggestions, and basic nutrition guidance—all tailored to individual needs and available at any time.
- Proposed Solution:
   Fitness Buddy aims to solve this problem by offering a conversational, AI-powered health and fitness coach that can:
- Recommend home workouts and routines based on user input.
- Provide motivational tips and daily fitness inspiration.
- Suggest simple, nutritious meal ideas.
- Encourage habit-building and consistency.



# TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

**IBM** Granite model



### **IBM CLOUD SERVICES USED**

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



### **WOW FACTORS**

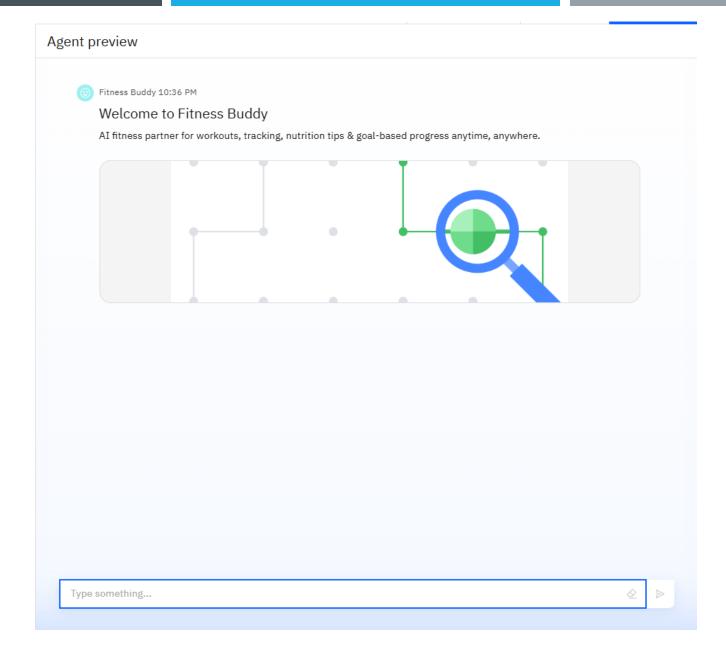
- This agent will transform personal fitness journeys by offering real-time, adaptive support to users of all fitness levels. It empowers users to stay motivated, track progress, and reach health goals efficiently—whether at home or in the gym—by making fitness guidance more accessible and personalized.
- Unique features:
- Personalized workout plans for home or gym based on fitness level and goals
   Nutritional advice tailored for weight loss, muscle gain, or maintenance
   Progress tracking with data on sets, reps, weight, and calories
   Daily motivational messages and reminders to stay on track
   Adaptive routines that evolve weekly based on performance
   Smart suggestions for recovery, hydration, and sleep optimization
   Voice-enabled interaction for hands-free workouts and tips



### **END USERS**

- General Public
- Gym-goers
- Students & Working professionals
- Tech-savvy Fitness Users







### Agent preview



KM You: 10:38 PM



Fitness Buddy 10:38 PM

Welcome! I'm your Fitness Buddy, here to help you achieve your fitness goals. What brings you here today? Are you looking to lose weight, build muscle, or improve your endurance? Let me know, and I'll do my best to create a personalized plan just for you!

▶ How did I get this answer?



KM You: 10:38 PM

I have 20 minutes daily. Suggest a quick full-body routine.



Fitness Buddy 10:38 PM

With 20 minutes a day, we can definitely get a great full-body workout in. Here's a quick and effective routine for you:

### Warm-up (2 minutes)

- · Jumping jacks: 30 seconds
- . Dynamic arm circles: 30 seconds (hold your arms straight out to the sides and make small circles with your hands)

### Exercise Circuit (16 minutes)

- Burpees: 3 sets of 10 reps (30 seconds rest between sets)
- Mountain climbers: 3 sets of 20 reps (30 seconds rest between sets)
- Push-ups: 3 sets of 10 reps (30 seconds rest between sets)
- Squats: 3 sets of 10 reps (30 seconds rest between sets)
- Plank hold: 3 sets of 30-second hold (30 seconds rest between sets)

#### Cool-down (2 minutes)

. Static stretches for major muscle groups (hamstrings, quadriceps, chest, back, and shoulders)

Type something...







### Agent preview

How does this sound? Are you ready to give it a try?

► How did I get this answer?



KM You: 10:39 PM

Suggest a simple bulking diet under ₹200 per day



Fitness Buddy 10:39 PM

To suggest a simple bulking diet under ₹200 per day, I'll provide you with some affordable and nutrient-dense food options. Here's a sample meal plan:

#### Breakfast

- . Oatmeal with milk and banana: ₹30
  - · 1 cup cooked oatmeal
  - 1 cup milk
  - 1 banana

### Mid-morning Snack

- Peanut butter banana toast: ₹20
  - · 2 slices whole wheat bread
  - · 2 tbsp peanut butter
  - 1 banana

#### Lunch

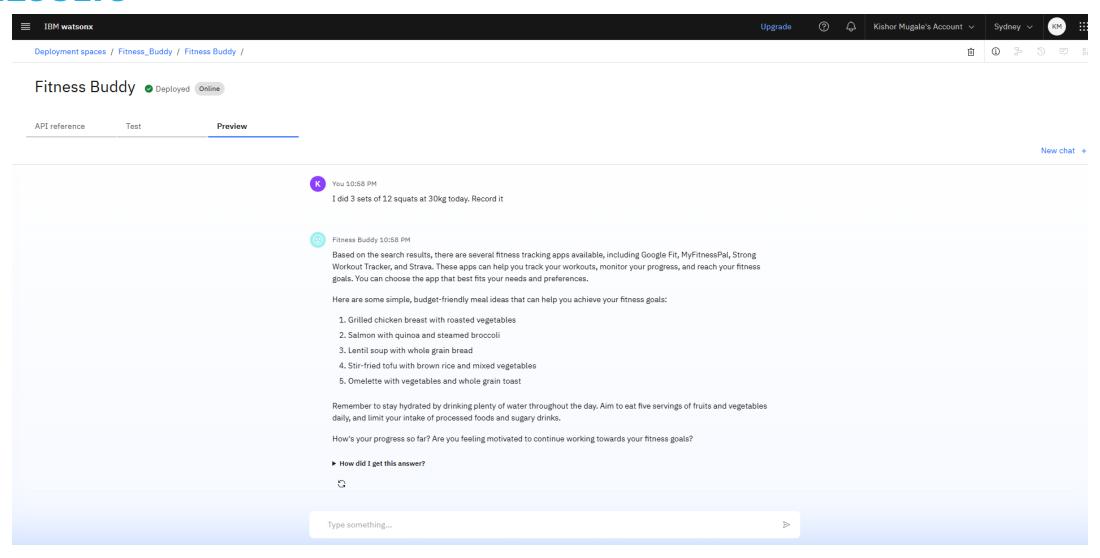
- . Brown rice and lentil bowl: ₹50
  - 1 cup cooked brown rice
  - 1 cup cooked lentils
  - 1 cup mixed vegetables (carrots, peas, onions)

Type something...











### CONCLUSION

- The agent can create personalized workout and diet plans, offer tips, and adjust based on progress.
- It saves time by automating fitness tracking, goal monitoring, and routine optimization.
- Fitness Buddy enhances consistency, motivation, and results for users across all fitness levels.



### **GITHUB LINK**

https://github.com/mahhesh-08/fitness\_buddy



# **FUTURE SCOPE**

- Multilingual Fitness Coaching Support
- Voice-Activated Workout and Meal Guidance
- Real-Time Progress Sharing with Trainers or Friends
- Al-Driven Injury Prevention and Posture Correction
- Integration with Wearables and Fitness Tracking Devices
- Adaptive Training Plans Based on Real-Time Biometrics



### **IBM CERTIFICATIONS**

In recognition of the commitment to achieve professional excellence Mahesh Dhote Has successfully satisfied the requirements for: Getting Started with Artificial Intelligence Issued on: Jul 17, 2025 Issued by: IBM SkillsBuild Verify: https://www.credly.com/badges/c29a145f-a316-4b45-98e0-25fc59bac990



In recognition of the commitment to achieve professional excellence



# Mahesh Dhote

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



Issued on: Jul 17, 2025 Issued by: IBM SkillsBuild







### IBM SkillsBuild

### **Completion Certificate**



This certificate is presented to

Mahesh Dhote

for the completion of

# Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

Completion date: 25 Jul 2025 (GMT)

**Learning hours:** 20 mins



# **THANK YOU**

