### **CAPSTONE PROJECT**

### PROJECT TITLE: FITNESS BUDDY

#### **Presented By:**

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### **OUTLINE**

- Problem Statement (Should not include solution)
- Proposed System/Solution
- System Development Approach (Technology Used)
- Algorithm & Deployment
- Result (Output Image)
- Conclusion
- Future Scope
- References



# PROBLEM STATEMENT

**Example:** The challenge - 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 is an Al-powered virtual coach that:

- Suggests daily home workouts based on user input
- Gives motivational tips and reminders
- Recommends easy, healthy meal plans
- Helps users build good habits step by step
- Works 24/7 as a friendly chat assistant



# SYSTEM APPROACH

IBM Cloud Lite Services: Cloud hosting, storage

IBM Granite Model: For natural language conversation and personalized suggestions

IBM Watson Assistant: For chatbot interface

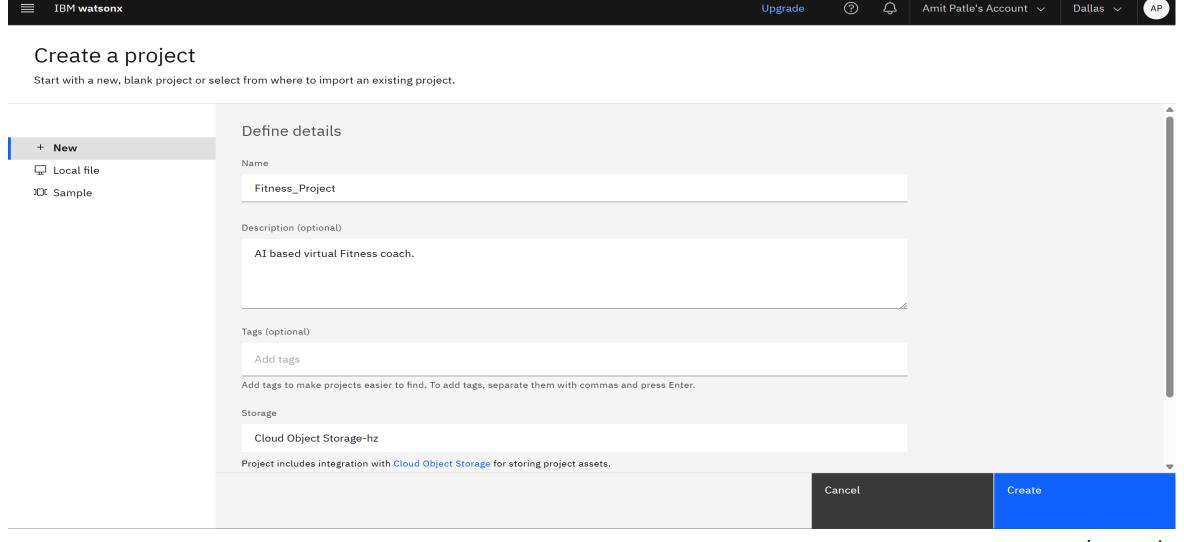
Frontend: Simple mobile or web app



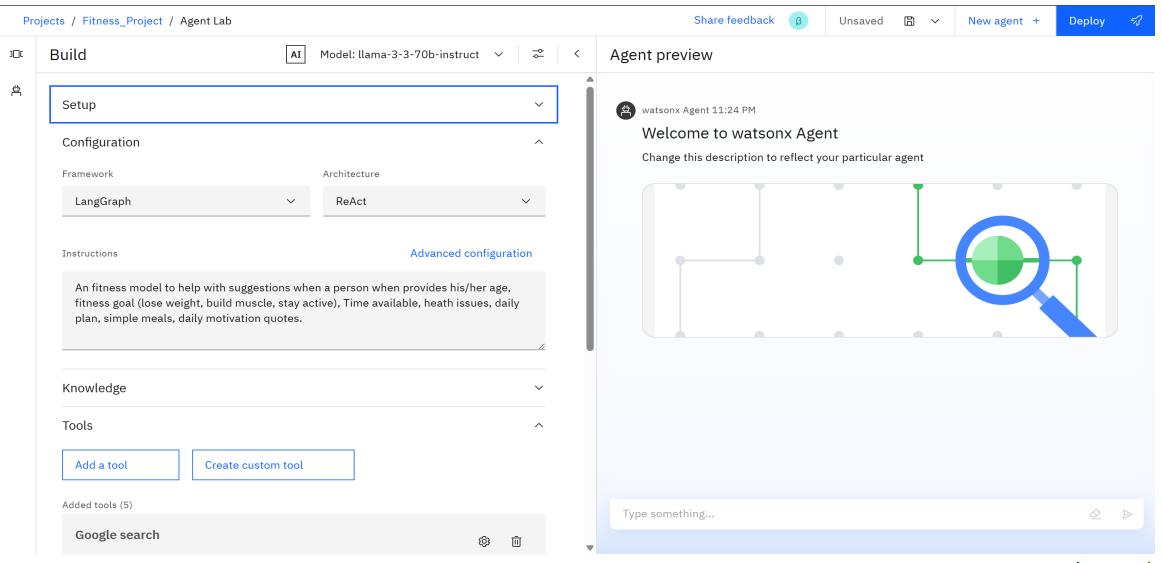
# **ALGORITHM & DEPLOYMENT**

- Algorithm:
- Collect basic user input: age, goal, health condition, diet type
- Use Granite LLM to generate personalized workout and meal plans
- Use Watson Assistant for friendly conversation
- Save user preferences in cloud storage
- Deployment:
- Hosted on IBM Cloud Lite
- Accessible on web or mobile
- Daily reminders sent using Cloud Functions

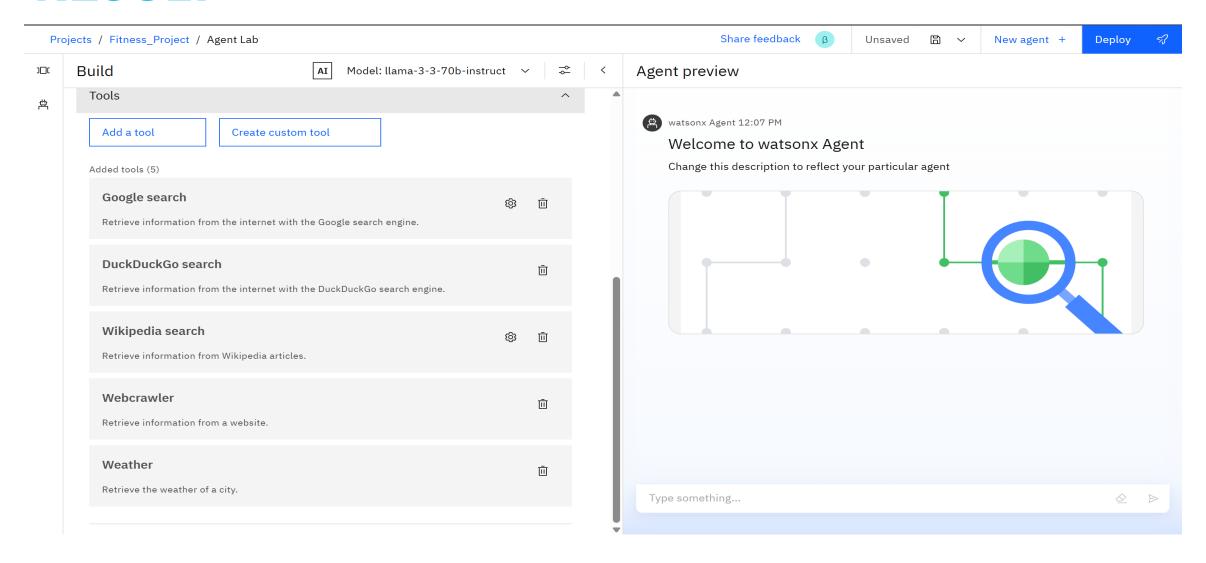




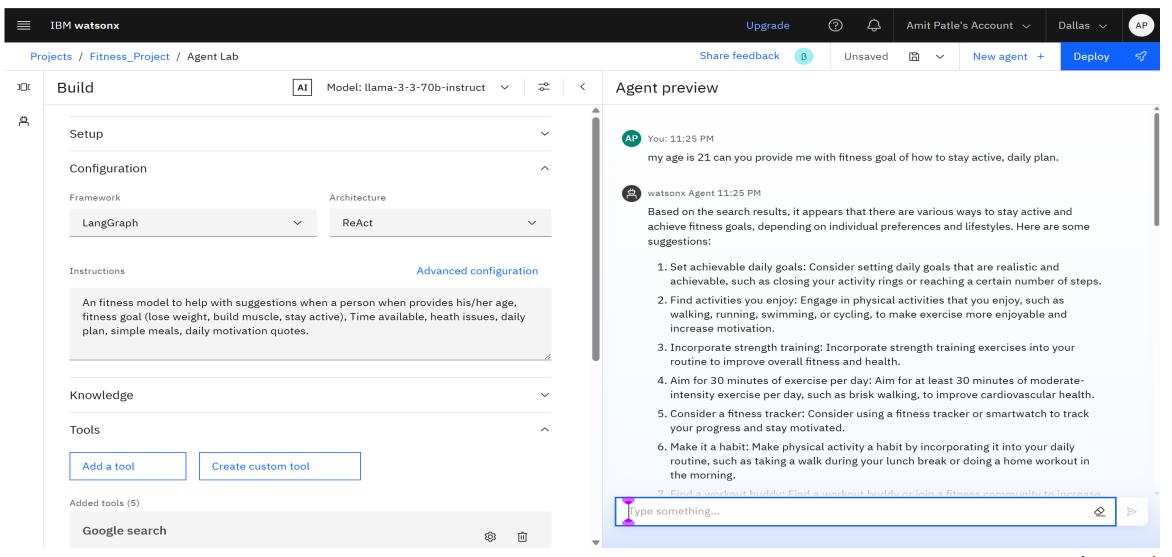




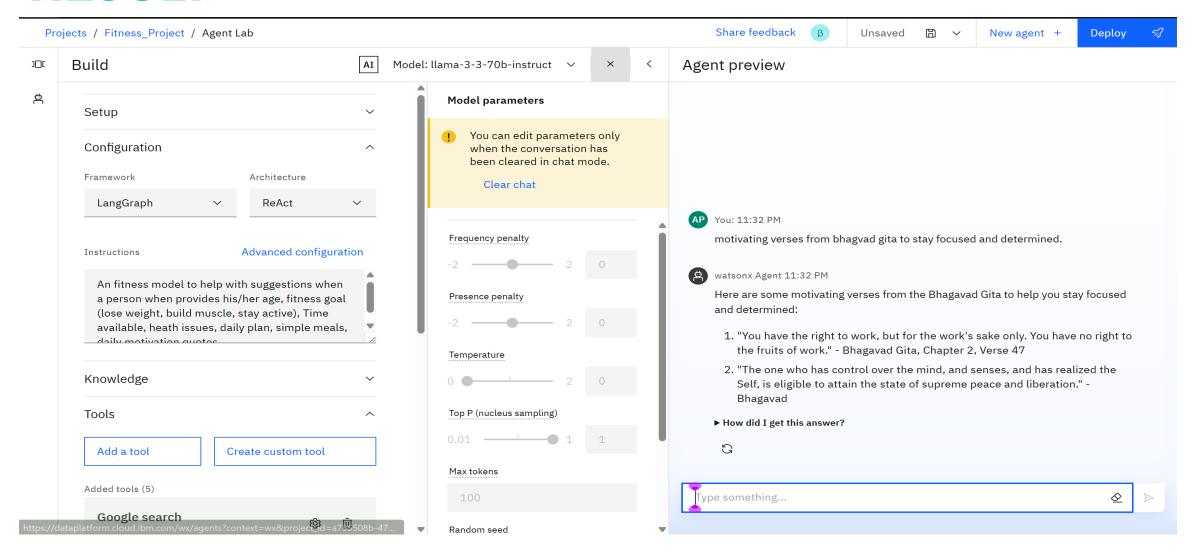




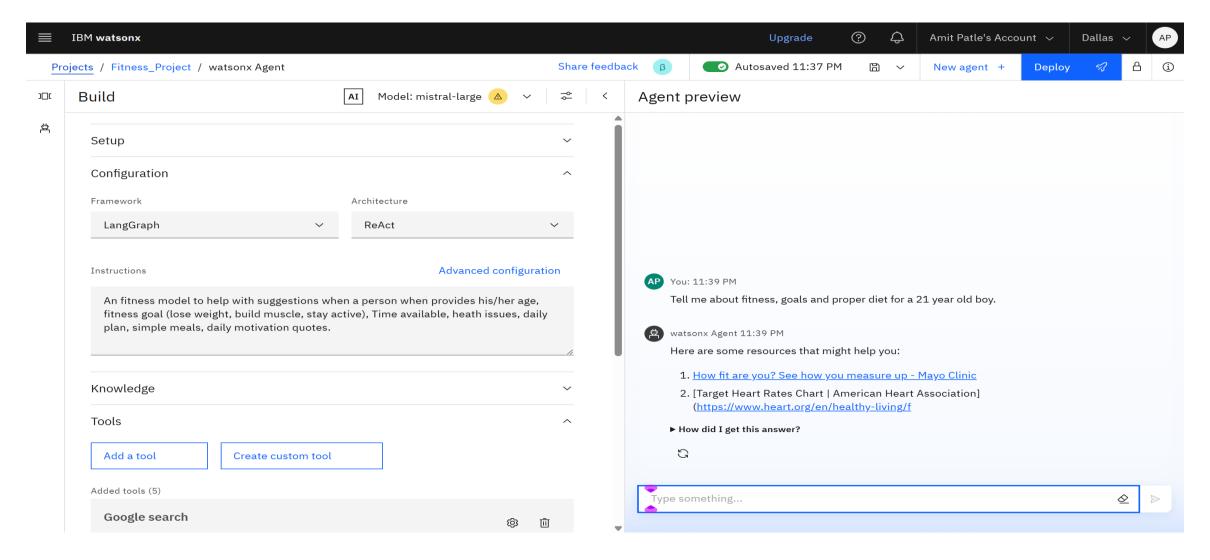




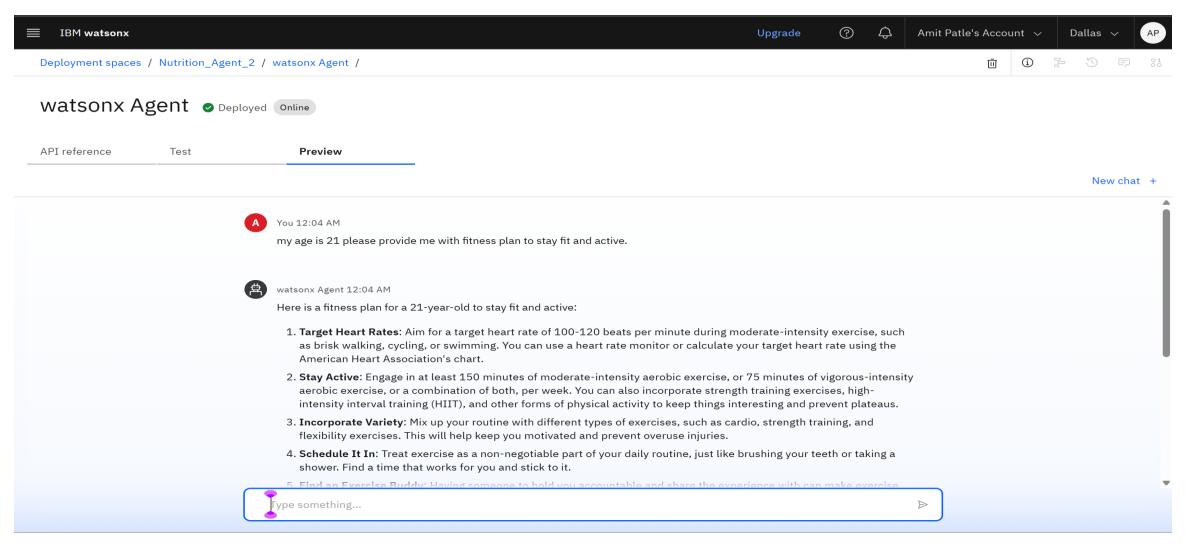














## CONCLUSION

Fitness Buddy helps busy people stay fit easily at home. It gives personal guidance, simple workouts, meal ideas, and daily motivation. It is cost-effective, always available, and easy to use.



### **FUTURE SCOPE**

- Add voice assistant feature Connect with fitness wearables (step count, heart rate)
- Multi-language support (Hindi, Marathi, etc.)
- Add Al health tips based on user progress
- Community challenges and leaderboard



# REFERENCES

- IBM Cloud Lite documentation
- IBM Granite model documentation
- Watson Assistant official docs



### **IBM CERTIFICATIONS**

In recognition of the commitment to achieve professional excellence



### **Amit Patle**

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



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#### Completion Certificate



This certificate is presented to

**Amit Patle** 

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**

