CAPSTONE PROJECT

FITNESS BUDDY

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(Science)



OUTLINE

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



PROBLEM STATEMENT

Researchers, students, and professionals often struggle to stay updated with the rapidly growing volume of academic publications, technical articles, datasets, and evolving research trends. Manually reviewing, filtering, and synthesizing information across multiple domains is time-consuming and inefficient.

Proposed Solution:

An Al Research Agent that uses Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), to assist users in conducting efficient literature reviews, generating summaries, identifying research gaps, and recommending relevant papers, datasets, or collaborators.



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

This agent will significantly reduce research time, improve the quality of literature reviews, help early-stage researchers find direction, and foster interdisciplinary collaboration by making knowledge more accessible and actionable.

Unique features:

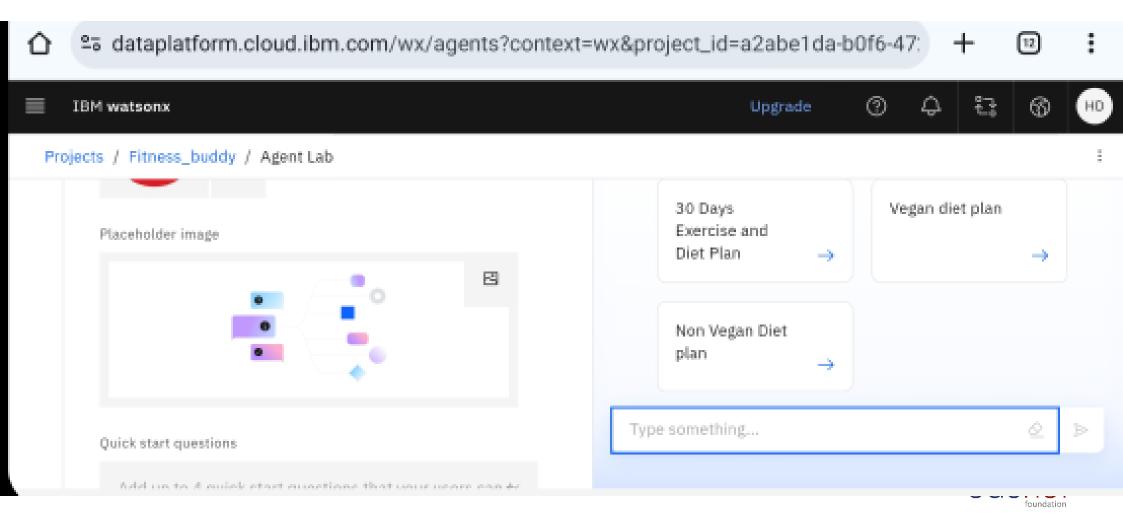
Fitness Buddy AI offers a personalized fitness journey with real-time workout recommendations based on user goals, fitness level, and equipment access. It tracks progress using AI-driven analytics, offering adaptive routines and habit-building nudges.smart rest-day planning, motivational daily quotes, and simple meal suggestions tailored to dietary needs. Integration with wearables enhances tracking accuracy, while a virtual coach mode provides feedback on form using camera input. It also supports community challenges and progress sharing to boost motivation. With multilingual support and offline accessibility, Fitness Buddy AI is your 24/7 smart health companion.

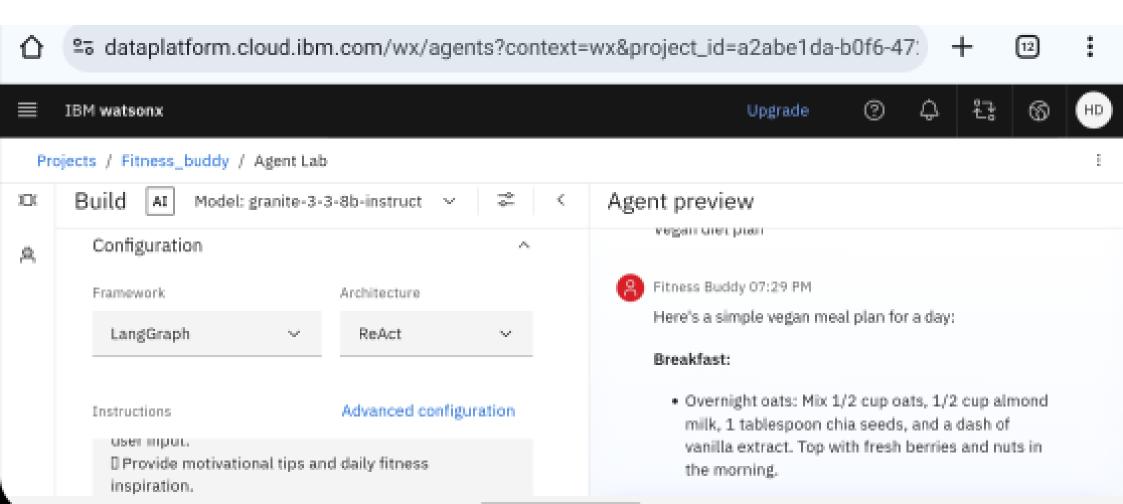


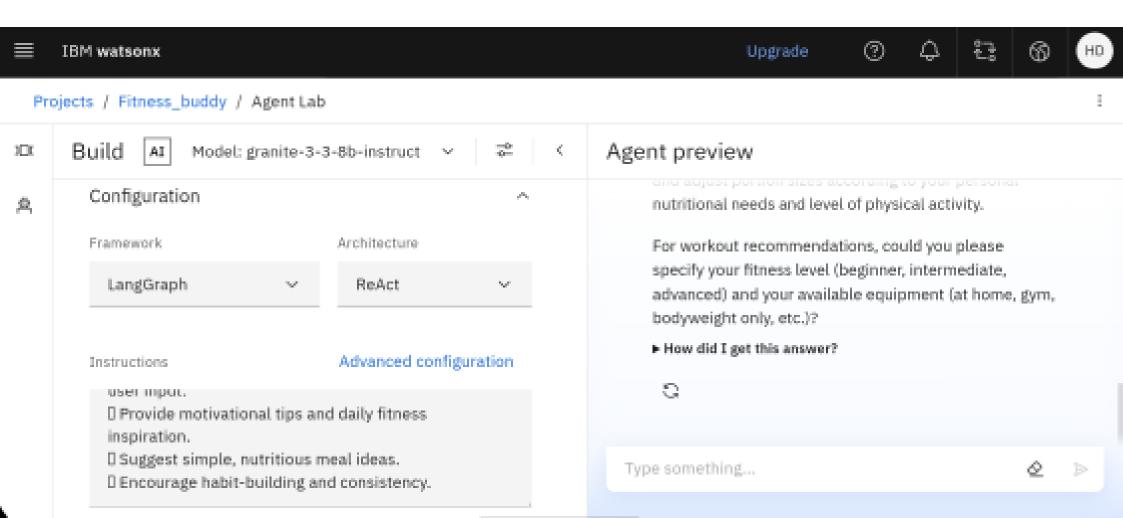
END USERS

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









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Deployed Al Agent

Snack:

· Hummus with carrot and celery sticks.

Dinner:

 Lentil curry: Sauté onions, garlic, and ginger. Add diced tomatoes, lentils, and spices (like turmeric, cumin, coriander). Simmer until lentils are cooked. Serve with brown rice.

Dessert:

 Baked apples: Core an apple, fill with a mix of oats, cinnamon, and a touch of maple syrup, then bake until soft.

Remember, it's important to ensure you're getting a balanced intake of nutrients, especially protein, iron, calcium, and vitamin B12, which can be more challenging on a vegan diet. Consider supplements if necessary, and consult with a nutritionist or dietitian for personalized advice.

For workouts, incorporate a mix of strength training (like bodyweight exercises or resistance bands) and cardio (like running, cycling, or high-intensity interval training). Aim for at least 150 minutes of moderate-intensity or 75 minutes of high-intensity cardio per week, along with strength training exercises at least 2 days per week.

Stay consistent, stay motivated, and remember that progress, not perfection, is the goal. Small, healthy changes over time lead to big results!

- How did I get this answer?

CONCLUSION

- 1. Personalized Guidance Delivers customized workouts, meal plans, and motivation tailored to individual fitness goals and lifestyles.
- 2. Smart Tracking Uses AI to monitor progress, adjust routines, and ensure consistent improvement.
- 3. 24/7 Support Acts as a virtual coach available anytime, anywhere, including offline.
- 4. Community & Motivation Encourages accountability through challenges, reminders, and positive reinforcement.



GITHUB LINK

Make sure that there should be readme file



FUTURE SCOPE

- Multilingual Research Support
- Real-Time Collaboration Features
- Research Gap and Novel Topic Identification
- Integration with Publishing Platforms
- Al-Assisted Paper Drafting



IBM CERTIFICATIONS

In recognition of the commitment to achieve professional excellence



Harsh Diwedi

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 16, 2025 Issued by: IBM SkillsBuild



In recognition of the commitment to achieve professional excellence



Harsh Diwedi

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



Issued on: Jul 18, 2025 Issued by: IBM SkillsBuild





IBM SkillsBuild

Completion Certificate



This certificate is presented to

Harsh Diwedi

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 22 Jul 2025 (GMT)

Learning hours: 20 mins

THANK YOU

