CAPSTONE PROJECT

CAREER COUNSELOR

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OUTLINE

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PROBLEM STATEMENT

Youth in rural areas often lack access to structured career guidance due to limited exposure, absence of professional counselors, and poor awareness of skill development opportunities. Many students are unaware of job-oriented courses, government schemes, or online training platforms that could help them build a career aligned with their interests.

Traditional methods of career counseling are not scalable and fail to reach underserved communities, contributing to skill mismatch, underemployment, and loss of potential.

There is a strong need for a smart, localized, and accessible solution that can provide personalized career guidance to rural youth based on real-time, trusted information.

TECHNOLOGY USED

IBM cloud lite services

Retrieval Augmented Generation (RAG)

IBM Granite model

IBM CLOUD SERVICES USED

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

WOW FACTORS

Delivers instant, customized career suggestions based on each youth's interests, education level,and education.

Available anytime, anywhere—even in remote villages—supporting local languages for better understanding and inclusivity.

Low Bandwidth & Mobile Friendly:Designed to work smoothly on basic smartphones with minimal data usage, making it ideal for rural settings.

Connects youth directly to government initiatives, online courses, scholarships, and nearby vocational centers using live, verified data.

Data-Driven Insights for Policymakers:Aggregated, anonymized data from user queries can help governments identify regional demand for jobs and training.

Bridges the gap between local aspirations and available opportunities, directly addressing underemployment in rural areas.

END USERS

- Rural Students (Classes 9–12 & Dropouts)
- College Students in Rural Areas
- Unemployed or Underemployed Rural Youth
- Parents & Guardians
- Mobile App Developers & EdTech Platforms
- School Teachers & Principals

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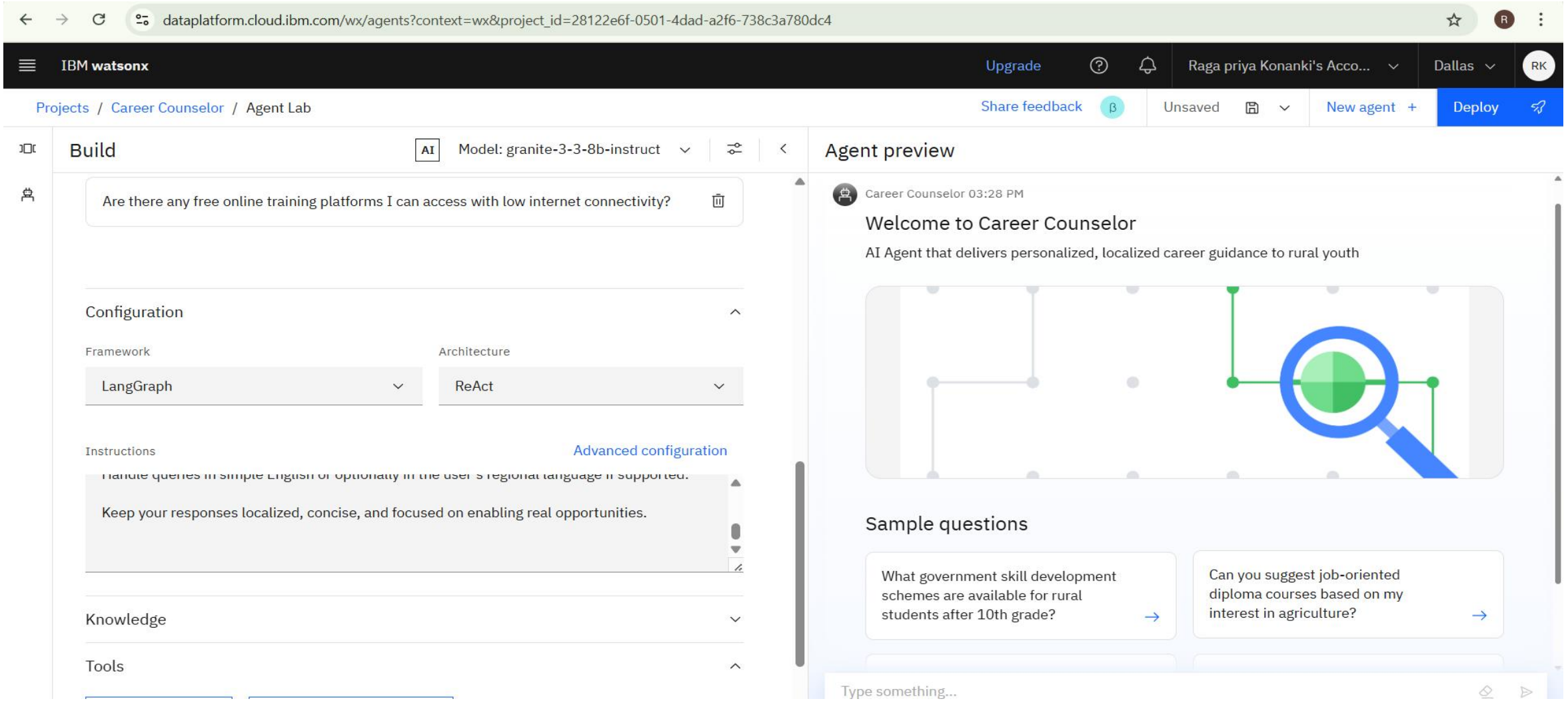
RESULTS



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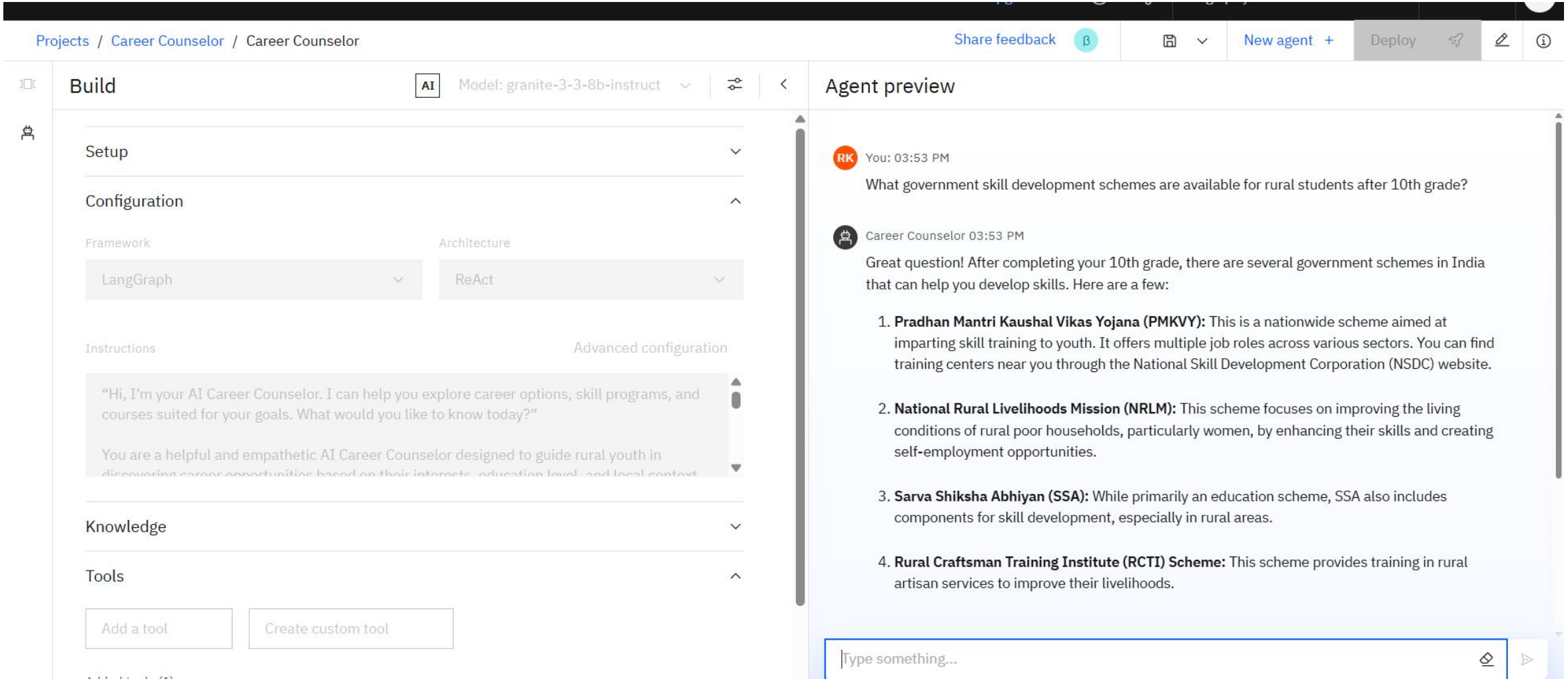
RESULTS



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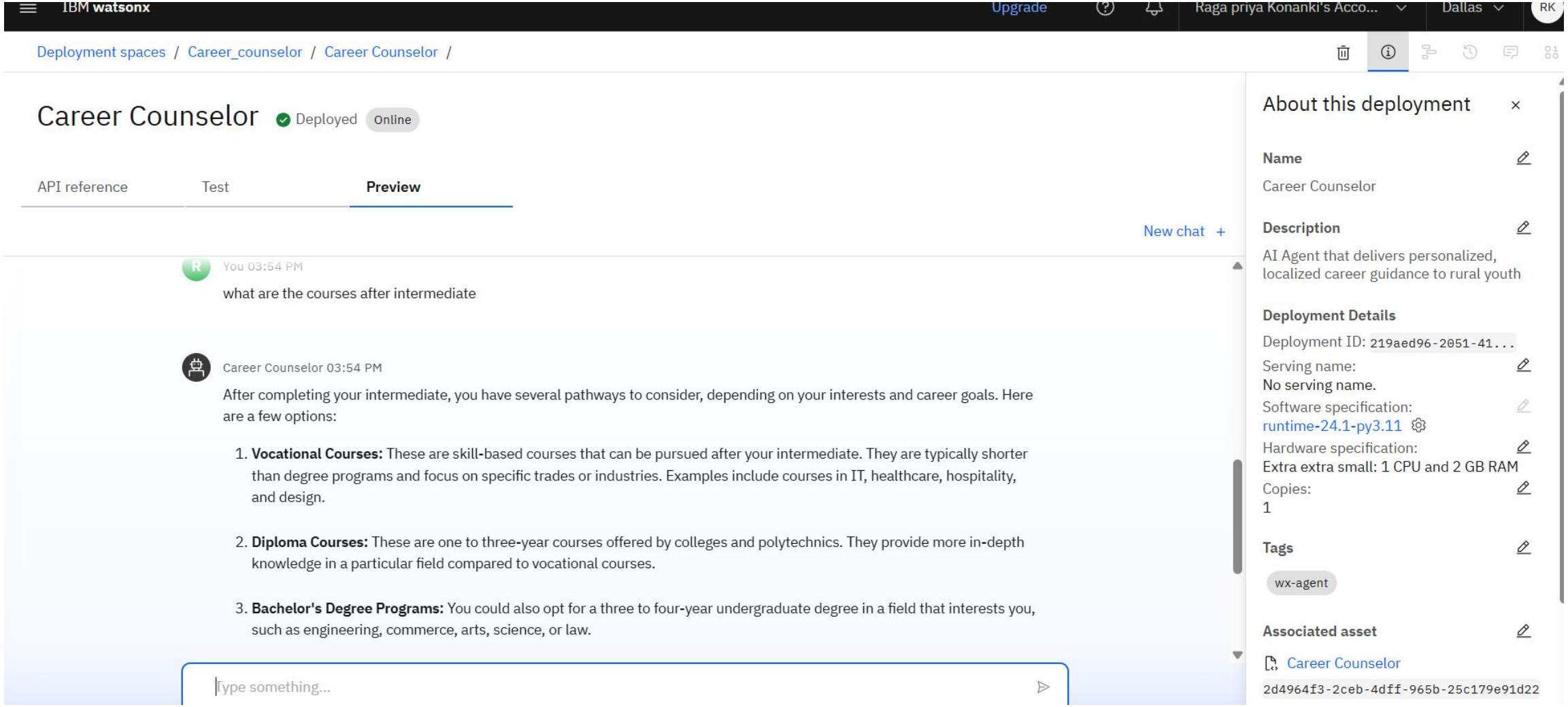
RESULTS



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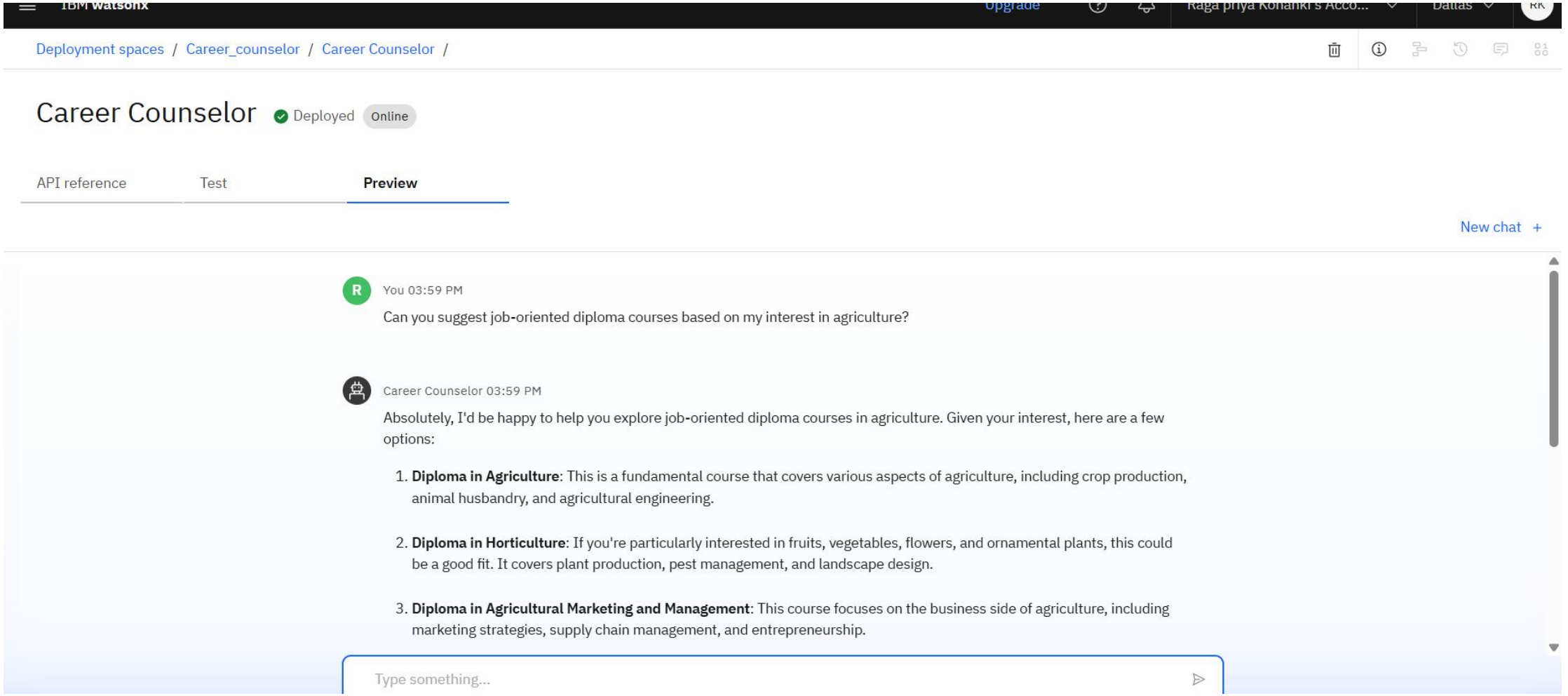
RESULTS

Deployed AI Agent



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CONCLUSION

- The AI Career Counselor for Rural Youth is a transformative solution that bridges the gap between rural aspirations and real-world opportunities.
- By offering personalized, accessible, and localized career guidance, it empowers youth with the knowledge and confidence to make informed decisions about their future.
- Unlike traditional counseling methods, this AI-powered agent works at scale, in real time, and across languages and literacy levels, ensuring that no talent is left behind due to lack of exposure or resources.
- It ensures inclusive, scalable impact by using local language support, low-bandwidth access, and smart data-driven suggestions—helping reduce underemployment and align skills with market needs.

FUTURE SCOPE

- Integration with Government & Skill Portals
- Geo-based Opportunity Mapping
- Personalized Career Roadmaps
- Research Gap and Novel Topic Identification
- Collaboration with NGOs & Schools
- AI Mentorship & Job Matching

IBM CERTIFICATIONS

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IBM CERTIFICATIONS

IBM **SkillsBuild** Completion Certificate

This certificate is presented to

Raga priya Konanki

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

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IBM CERTIFICATIONS

In recognition of the commitment to achieve professional excellence

Journey to Cloud: Envisioning Your Solution

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Ragapriya Konanki

Has successfully satisfied the requirements for:

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Issued on: Jul 23, 2025
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