IBM AICTE PROJECT

CAREER COUNSELOR RURAL YOUTH AI AGENT

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OUTLINE

- **Problem Statement**

- **Technology used**

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- **End users**

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AI CAREER COUNSELOR RURAL YOUTH

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 undeserved 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

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

AI-Powered Personalized GuidanceYour intelligent agent offers career counseling tailored to rural youth, guiding them through job-oriented courses, competitive exams, and government programs in real time.

 Study Companion for National ExamsFrom NEET, JEE, GATE, CAT to CET, the agent helps students plan, track, and optimize their preparation with time-effective study schedules, mock test strategies, and learning resources.

Gateway to OpportunitiesEmpowers users to discover and apply for:

• Government schemes

• Scholarships & internships

• Skill development programs

• Small business support (e.g., MUDRA Yojana)

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WOW FACTOR

Accessible, Scalable & Cost-EfficientBuilt using IBM Cloud Lite and Granite models, this solution ensures low-cost deployment and scalability, bridging the urban-rural career divide with zero infrastructure burden.
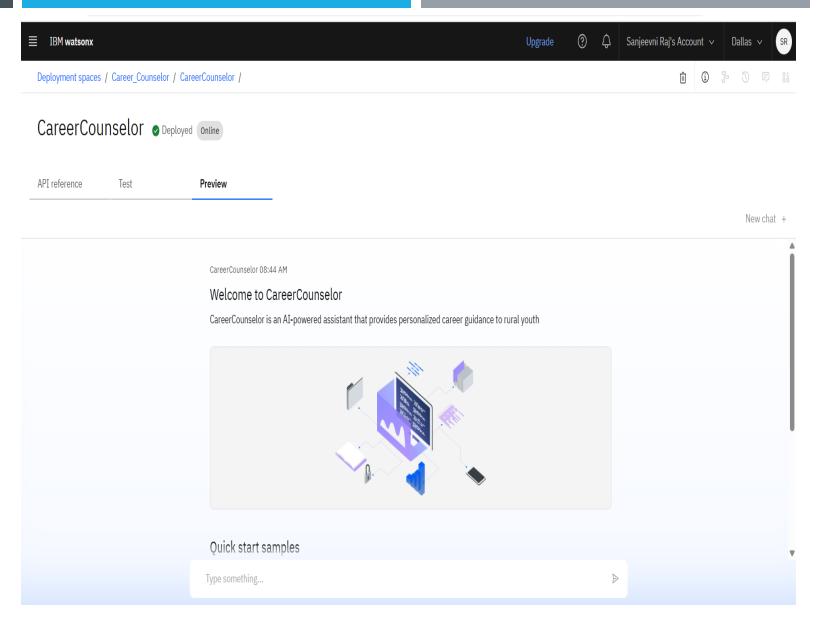
 Agentic AI, Local ImpactA real example of Agentic AI solving ground-level challenges — enabling self-directed, context-aware decision-making for the most underserved segment: rural youth
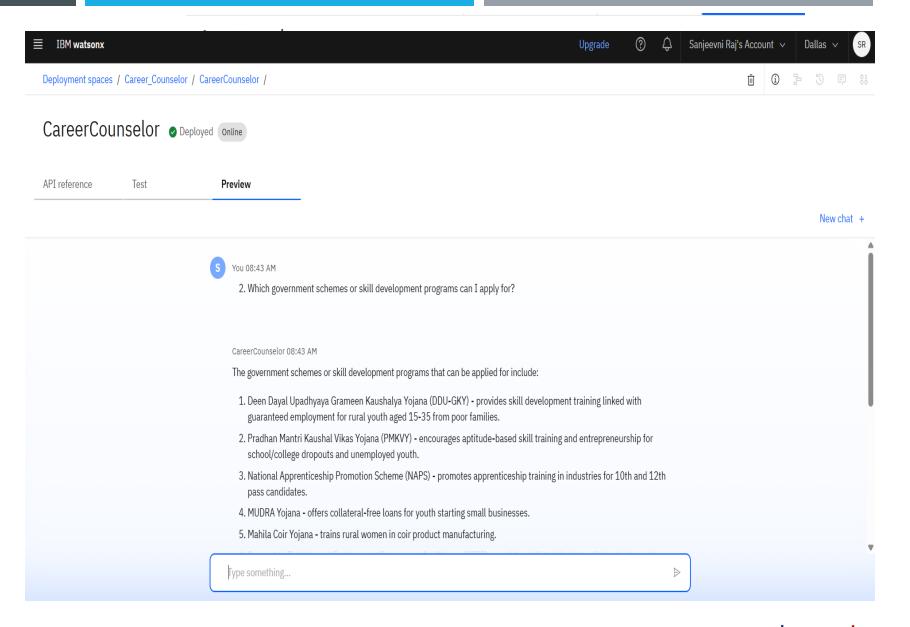
END USERS

- School Students

- College Students

- Job Seeking Graduates

- Educators

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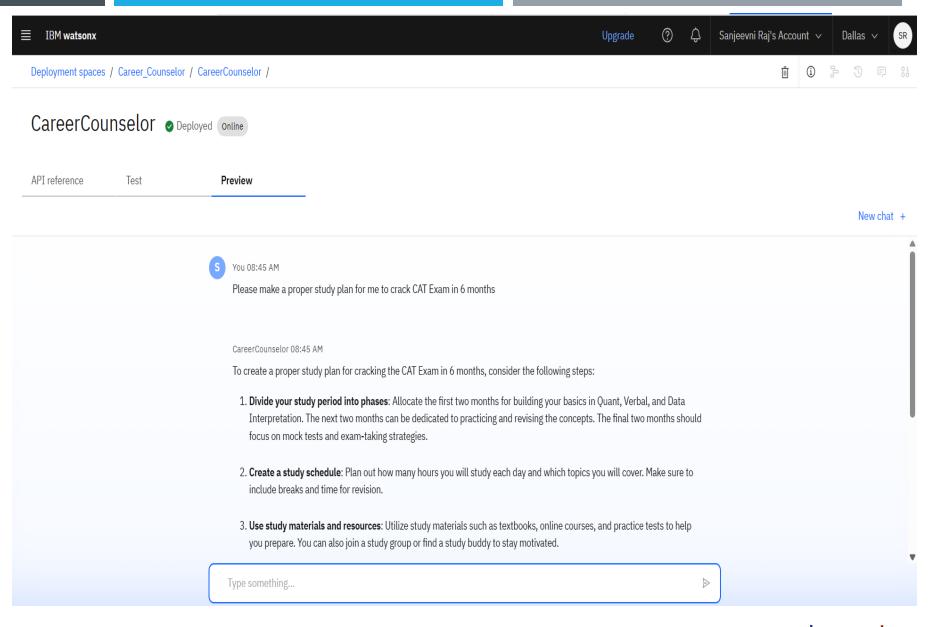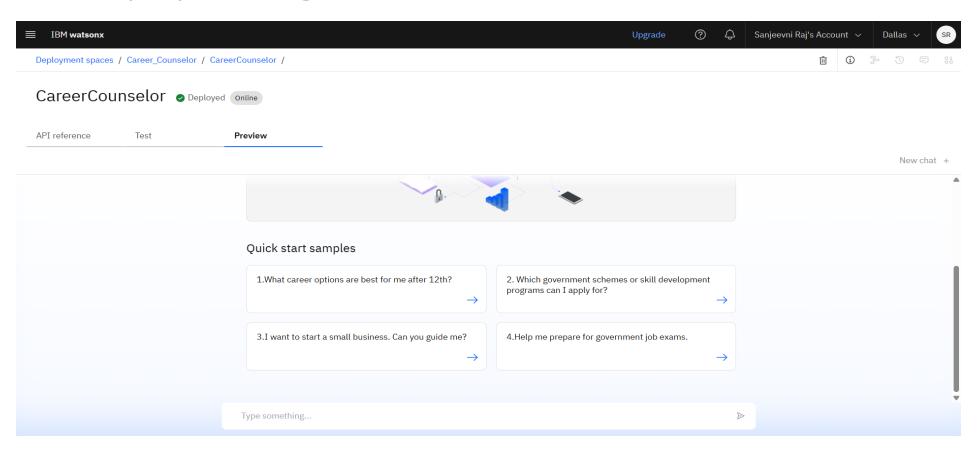foundation

RESULTS

RESULTS

RESULTS

RESULTS

Deployed AI Agent

CONCLUSION

- Bridging the Divide: Our AI Career Counselor tackles the urban-rural career divide, offering an accessible and cost-effective solution for underserved youth.

- Powered by IBM: Built on IBM Cloud Lite, NLP, RAG, and the Granite model, the platform provides scalable and intelligent guidance.

- Personalized Guidance: The AI agent offers real-time, tailored advice on career paths, competitive exams (NEET, JEE, CAT), and government programs.

- Comprehensive Support: It acts as a study companion for exam preparation and a gateway to opportunities, including scholarships, internships, and government schemes like MUDRA Yojana.

- Empowering Youth: This "agentic AI" solution provides a self-directed, context-aware tool that empowers rural youth to make informed decisions and unlock their potential.

GITHUB LINK

- Make sure that there should be readme file

FUTURE SCOPE

- Expanded Opportunity Gateways

- Interactive Mentorships

- Predictive Market Insights

- Advanced Personalization

- Multilingual Interface

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IBM CERTIFICATIONS

- Screenshot/ credly certificate(getting started with AI)

In recognition of the commitment to achieve professional excellence

Getting Started with Artificial Intelligence
IBM SkillsBuild

Sanjeevni Raj

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence

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

Verify: https://www.credly.com/badges/30b2376c-6a6b-4b9a-922b-15ff89b1d135

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Attach your RAG LAB certificate here

IBM **SkillsBuild**   Completion Certificate

This certificate is presented to

Sanjeevni Raj

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 23 Jul 2025 (GMT)   **Learning hours:** 20 mins

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THANK YOU