edunet

IBM AICTE PROJECT

AGENTIC AI – RESEARCH AGENT

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OUTLINE

- Problem Statement
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PROBLEM STATEMENT

repetitive tasks like citation management and data extraction. Research A Research Agent is an Al system designed to assist with academic and information. The agent can generate reports, suggest hypotheses, and Agents enhance efficiency, accuracy, and innovation in both academic processing, it understands research questions and retrieves relevant summarize papers, and organize references. Using natural language even draft sections of research papers. It saves time by automating scientific research tasks. It can autonomously search for literature, and industrial R&D.



TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model





IBM Cloud Watsonx Al Studio

IBM CLOUD SERVICES USED

- IBM Cloud Watsonx Al 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:

Semantic search across research papers, journals, and datasets

Auto-summarization of selected papers

Citation and reference analysis to trace influence

Recommendation of research papers based on a user's current topic

Trend analysis over time for specific keywords or domains.

Collaboration mapping: suggests potential co-authors or institutions based on similar research interests.



END USERS

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

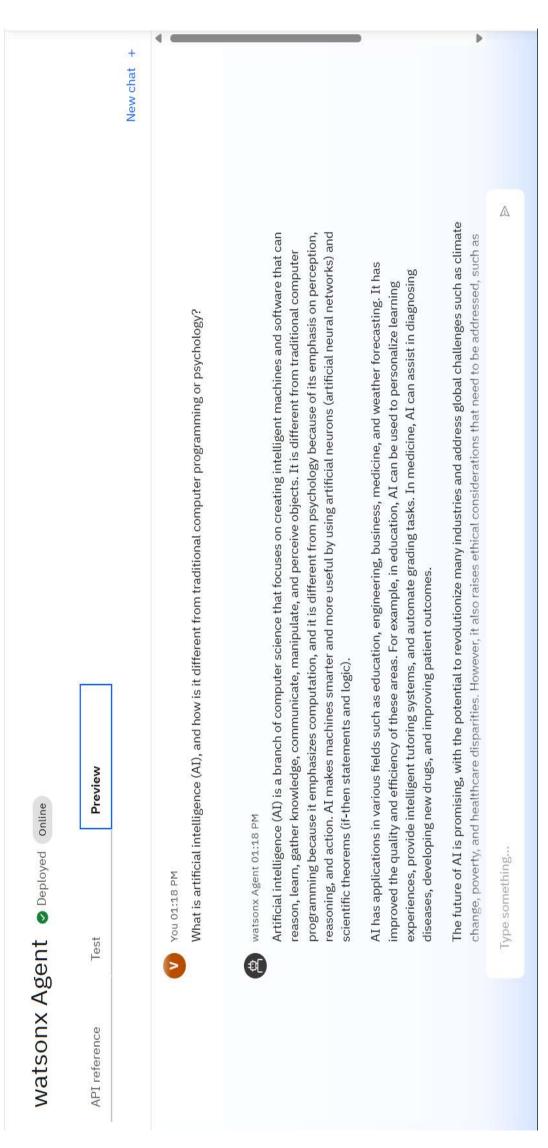


RESULTS

New chat + Δ Change this description to reflect your particular agent Welcome to watsonx Agent 型 watsonx Agent 01:36 PM Type something... Preview watsonx Agent o Deployed online Test API reference



RESULTS





RESULTS

Edunet Foundation is an organization dedicated to bridging the skill deficit in India by leveraging the potential of the country's • Programs: They offer various programs such as Skills4Future, which aims to equip students with essential green skills youth. They focus on creating educational networks that promote employability and entrepreneurship. The foundation has • Partnerships: Edunet Foundation collaborates with organizations like IBM for the SkillsBuild program, which helps enjoyed Special Consultative Status and works to enhance student employability and promote innovation. Hiring: They are actively hiring for positions like Master Trainer in various locations across India. Mission: To bridge the academia-industry divide and enhance student employability. learners acquire technical and professional skills. Here are some key points about Edunet Foundation: using data analytics and AI technologies. what is edunet foundation? watsonx Agent 01:38 PM Type something... V You 01:38 PM Preview watsonx Agent Deployed Online Œ Test API reference

New chat +





Deployed Al Agent

Watsonx Agent Deployed Online

API reference Test Preview

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Welcome to watsonx Agent

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CONCLUSION

- The agent can generate reports, suggest hypotheses, and even draft sections of research papers.
- It saves time by automating repetitive tasks like citation management and data extraction.
- Research Agents enhance efficiency, accuracy, and innovation in both academic and industrial R&D.





GitHub - https://github.com/vibhu-00/Agentic_Al

GITHUB LINK

FUTURE SCOPE

- Multilingual Research Support
- Voice-Activated Research Assistant
- 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



Vibhuti Kumar Singh

Has successfully satisfied the requirements for:

IBM Getting started with AI certificate

Getting Started with Artificial Intelligence



Issued on: Jul 18, 2025 Issued by: IBM SkillsBuild Verify: https://www.credly.com/badges/d5563aab-095e-4d8c-8e2d-b19dc







IBM SkillsBuild

Completion Certificate



This certificate is presented to

Vibhuti kumar Singh

for the completion of

RAG LAB certificate

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 20 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU