## **CAPSTONE PROJECT**

## STARTUP BLUEPRINT GENERATOR AGENT

**Presented By:** 

Student name : SONALI KUMARI GOUDA

College Name & Department : PARALA MAHARAJA

**ENGINEERING COLLEGE, CSE** 



## **OUTLINE**

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



# PROBLEM STATEMENT

Aspiring entrepreneurs, students, and innovators often face challenges in transforming abstract ideas into structured startup concepts due to a lack of access to domain-specific knowledge, market insights, technical frameworks, and validated business models. The process of researching, synthesizing, and planning a viable startup blueprint is fragmented, time-intensive, and overwhelming—especially for those without prior entrepreneurial experience or cross-domain expertise.

#### **Proposed Solution:**

Develop an AI-powered Startup Blueprint Generator that uses Natural Language Processing (NLP) and Retrieval-Augmented Generation (RAG) to help users transform vague ideas into actionable startup plans. Users can input a problem, idea, or domain, and the system will automatically generate:

- •A structured startup blueprint (problem, solution, market, tech stack, target users, etc.)
- Relevant industry trends and competitor analysis
- Recommended tools, datasets, and MVP components
- Potential collaborators, investors, and accelerators



# **TECHNOLOGY USED**

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

**IBM** Granite model



## **IBM CLOUD SERVICES USED**

- IBM Cloud Watsonx Al 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:

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

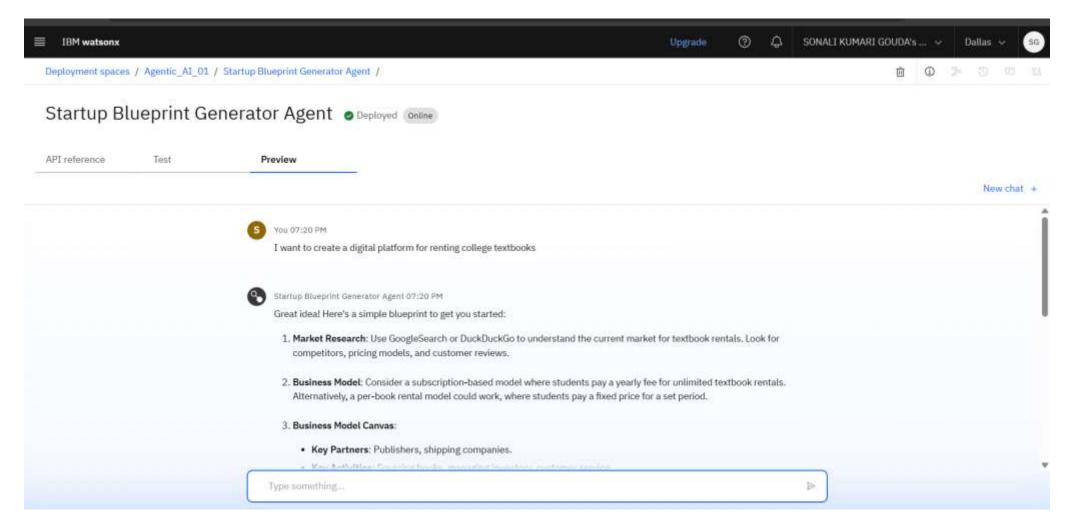


Deployment spaces / Agentic\_AI\_01 / Startup Blueprint Generator Agent /

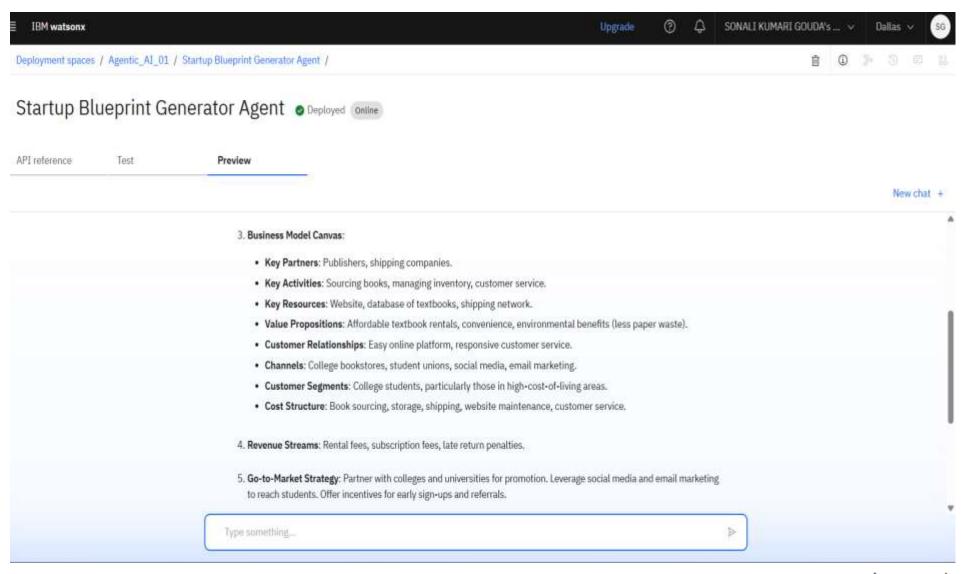
#### Startup Blueprint Generator Agent Openloyed Online

API reference Test Preview Startup Blueprint Generator Agent 07:11 PM Welcome to Startup Blueprint Generator Agent I'm here to turn your raw startup dream into a complete business plan -tailored exactly to your idea Type something...



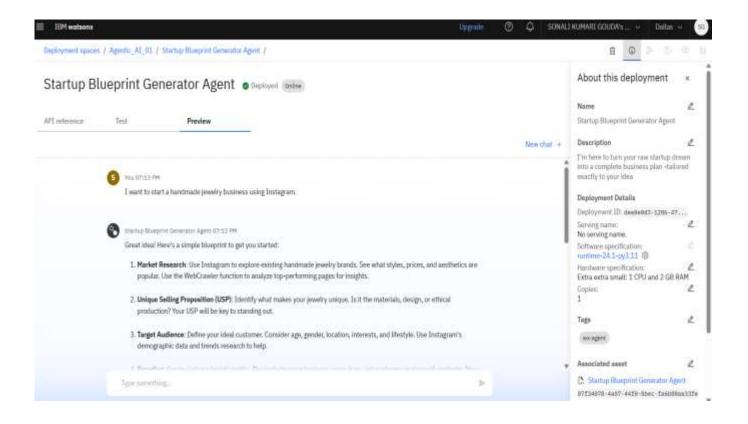








## Deployed AI Agent





#### 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.



## **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



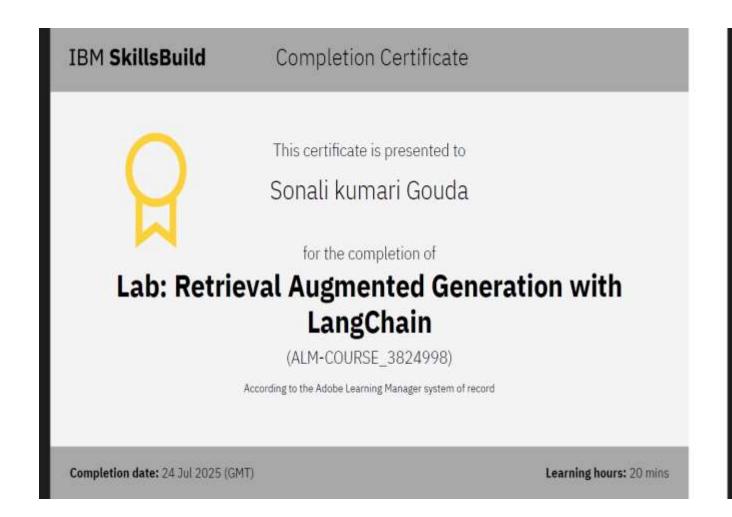
## **IBM CERTIFICATIONS**

Screenshot/ credly certificate( getting started with AI)





Attach your RAG LAB certificate here





Git hub lik: https://github.com/Sonalikumari2345/AICTE-IBM-internship-Cloud-and-Al.git



## **GITHUB LINK**

Make sure that there should be readme file



# **THANK YOU**

