CAPSTONE PROJECT

STARTUP BLUEPRINT GENERATOR AGENT

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OUTLINE

- Problem Statement
- Technology used
- Wow factor
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- Git-hub Link
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- 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

- Aspiring entrepreneurs
- Student innovators
- Early-stage startup founders
- Incubators and accelerators
- Business mentors and consultants
- Corporate intrapreneurs

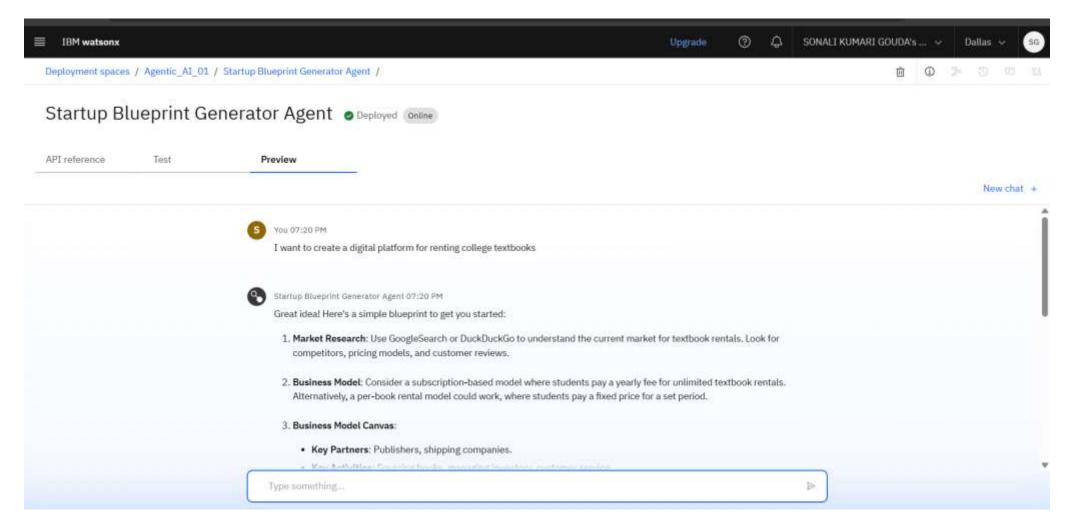


Deployment spaces / Agentic_AI_01 / Startup Blueprint Generator Agent /

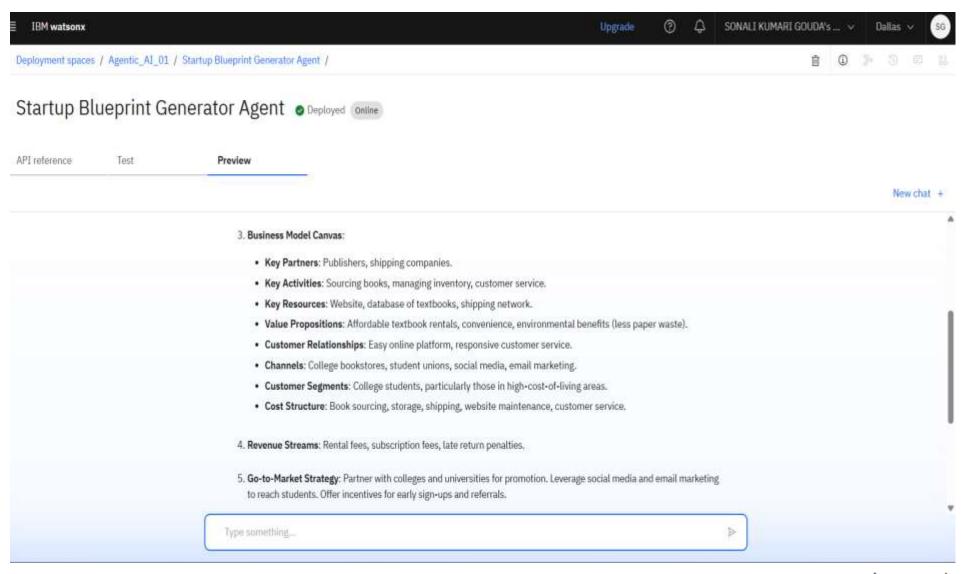
Startup Blueprint Generator Agent Openloyed Online

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...



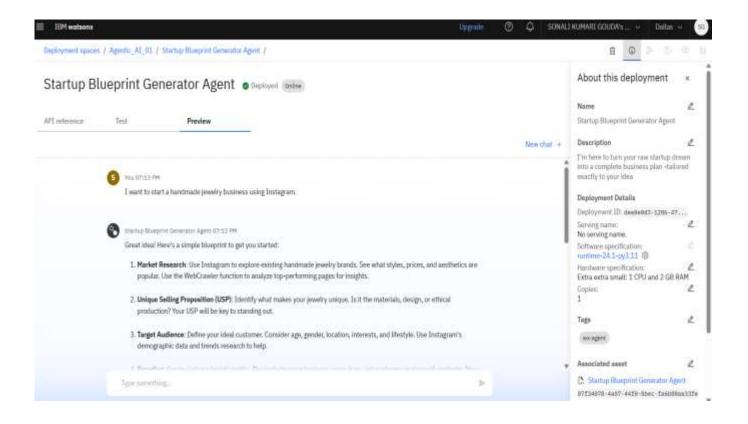








Deployed AI Agent





CONCLUSION

- The Startup Blueprint Generator can validate ideas, provide market insights, and generate investor-ready plans.
- It saves time by automating business planning, market research, and pitch preparation.
- This tool enhances clarity, speed, and success potential for entrepreneurs and innovators



FUTURE SCOPE

- Integration with live funding databases and investor networks
- Multi-language and regional market support
- Al-driven competitor risk analysis
- Collaboration features for team-based planning
- Export to advanced formats (PDF, Google Slides, Notion)
- Gamified learning modules for first-time founders



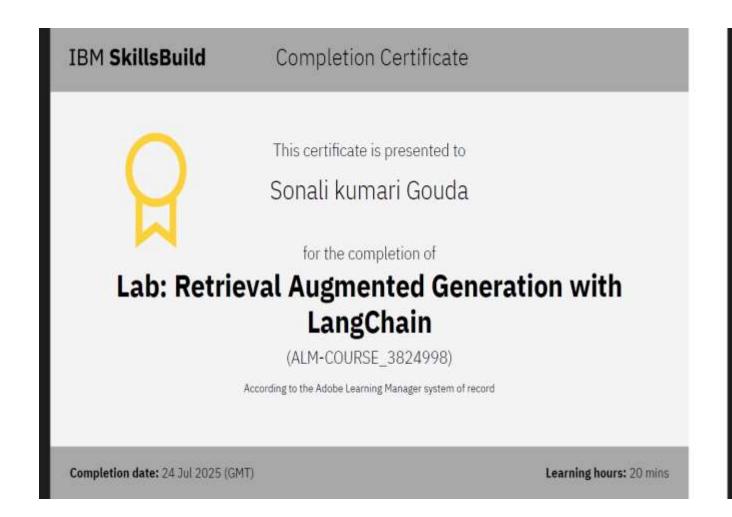
IBM CERTIFICATIONS

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

