
CAPSTONE PROJECT

PROJECT TITLE

Presented By

1. **Manasvi Vardhamana Shetty**
2. **Bahubali College of Engineering / Information Science and Engineering**

OUTLINE

- **Problem Statement** (Should not include solution)
- **Proposed System/Solution**
- **System Development Approach** (Technology Used)
- **Algorithm & Deployment**
- **Result (Output Image)**
- **Conclusion**
- **Future Scope**
- **References**

PROBLEM STATEMENT

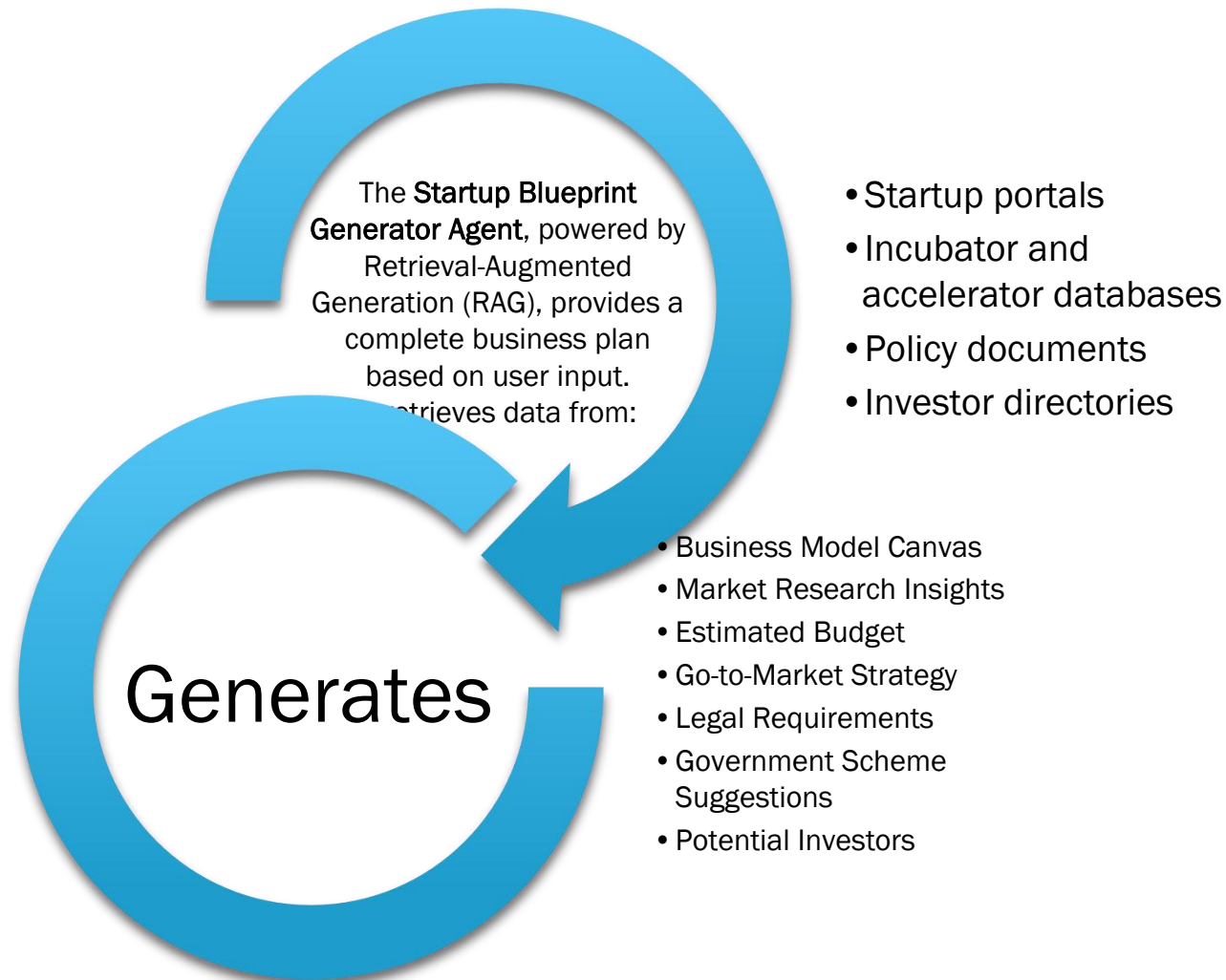


Many aspiring entrepreneurs have innovative ideas but lack access to resources, market research, and structured guidance to turn these ideas into viable startups.

They struggle with understanding legal compliance, building a business model, and connecting with investors. This leads to delays or failure in transforming ideas into successful ventures.

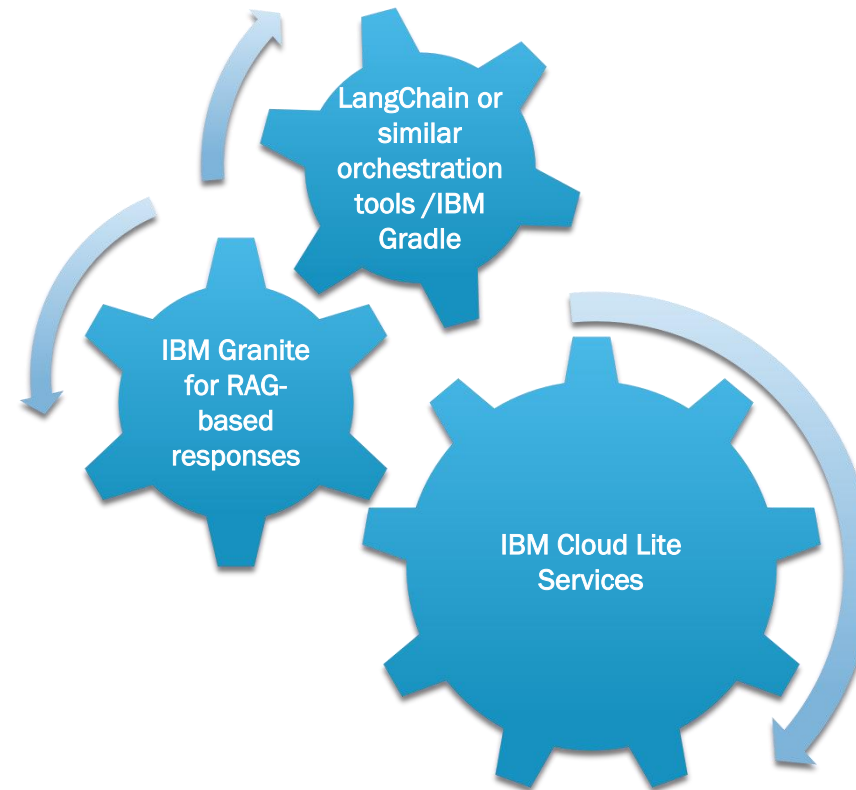
There is a need for an AI-driven agent that can guide users from idea to execution using real-time data and expert knowledge.

PROPOSED SOLUTION



SYSTEM APPROACH

Technologies Used



ALGORITHM & DEPLOYMENT

Algorithm:

- **RAG (Retrieval-Augmented Generation)** combines retrieval of relevant documents with generative AI responses.

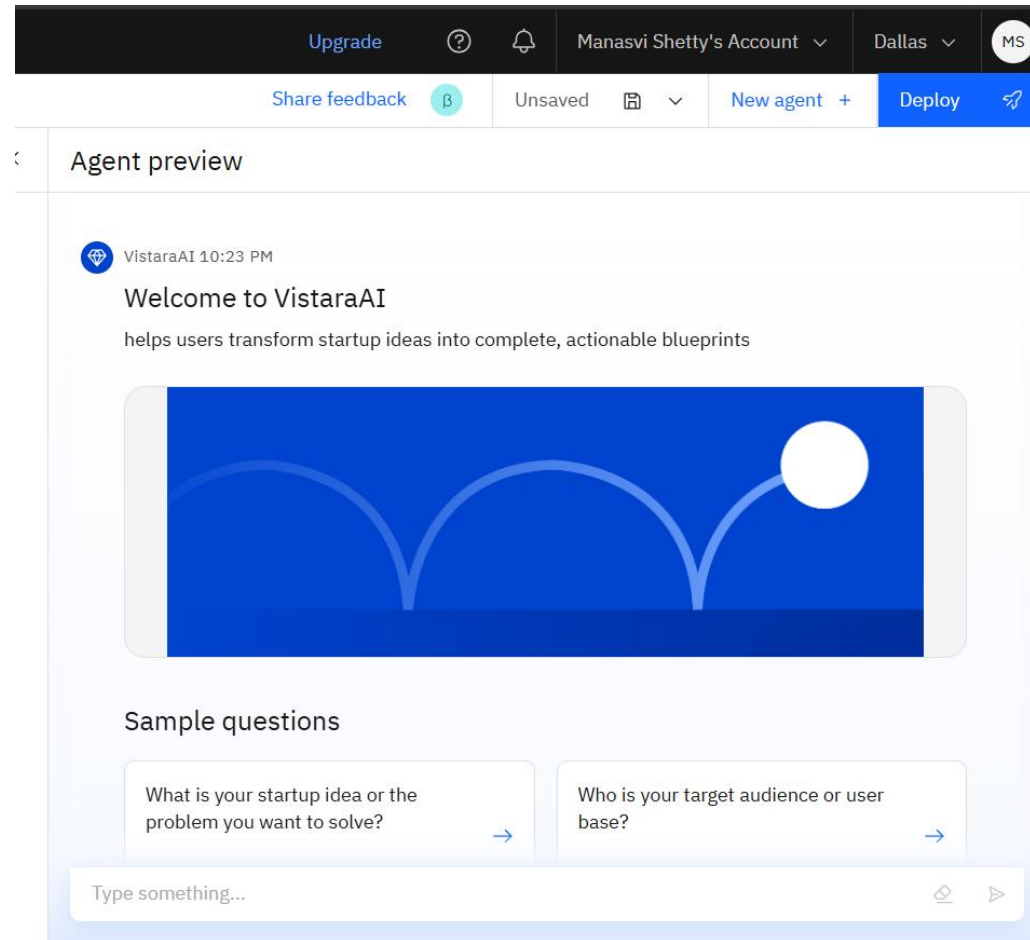
Workflow:

- User enters idea description.
- Documents related to the idea are fetched using semantic search.
- IBM Granite generates a complete startup blueprint using retrieved context.
- Response is displayed in structured sections (canvas, market, investors, legal, etc.).

Deployment:

- Hosted on **IBM Cloud** using **Lite tier services**

RESULT





Saved agents



From Startup_Blueprint_Generator



VistaraAI

helps users transform startup ideas into complete, actionab...

Build



Model: granite-3-3-8b-instruct



Setup



Configuration



Knowledge



Tools



Agent preview



Sample questions

What is your startup idea or the problem you want to solve?



Who is your target audience or user base?



Which industry or domain does your idea belong to?



What is your preferred deployment method or infrastructure (if any)?



Type something...



Build

AI

Model: llama-3-3-70b-instruct

<

Agent preview

Knowledge

Vector index

startup_blueprint

A vector index searches documents for relevant information to ground the model. Upload the files to index or select an existing index.

Tools

Add a tool

Create custom tool

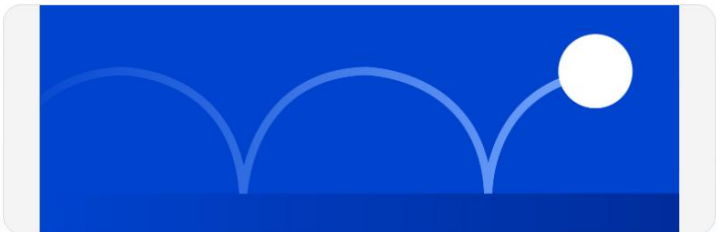
Added tools (6)

Google search

Retrieve information from the internet with the Google search engine.

DuckDuckGo search

Retrieve information from the internet with the DuckDuckGo search engine.



Sample questions

What is your startup idea or the problem you want to solve?

Which industry or domain does your idea belong to?

Do you have any specific technologies or platforms in mind?

Would you like help with monetization strategies, marketing, or just technical planning?

Type something...

Build

AI

Model: llama-3-3-70b-instruct



Instructions

[Advanced configuration](#)

You are a helpful assistant that uses tools to answer questions in detail.
When greeted, say "Hi, I am Your VistaraAI. How can I help you?"

You are a Startup Blueprint Generator Agent powered by Retrieval-Augmented Generation (RAG). Your purpose is to convert user-submitted startup ideas—however raw or

Knowledge

Vector index

[Clear chat](#)

startup_blueprint

If you want to add a vector index to the agent, clear the agent preview chat.

Tools

[Add a tool](#)[Create custom tool](#)

Added tools (6)

Google search

Agent preview



You: 10:11 PM

I want to open a small cloud kitchen focused on affordable healthy meals for working professionals.



VistaraAI 10:11 PM

Here's a detailed response to help you get started with your small cloud kitchen concept:

Summary

A cloud kitchen, also known as a ghost kitchen or virtual kitchen, is a food preparation and delivery service that operates solely online, without a physical dining space. Your concept focuses on providing affordable, healthy meals to working professionals, which is a great niche to target.

Problem & Solution

The problem is that working professionals often have limited time and options for healthy, affordable meals. The solution is to create a cloud kitchen that offers a variety of healthy, nutritious meals at an affordable price point, with the convenience of online ordering and delivery.

Market Opportunity

The market opportunity for cloud kitchens is significant, with the global cloud kitchen market expected to reach \$1 trillion by 2025. The demand for healthy, convenient meals is increasing, driven by consumer concerns about health and wellness.





Build



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Added tools (6)

Google search



Agent preview

Operations and Management

To ensure smooth operations, you'll need to:

1. **Rent a commercial kitchen space:** Find a licensed, commercial kitchen space that meets health and safety regulations.
2. **Hire staff:** Hire experienced chefs, kitchen staff, and customer service representatives to manage orders and deliveries.
3. **Source high-quality ingredients:** Find reliable suppliers for fresh, healthy ingredients.
4. **Implement a ordering and delivery system:** Use a platform like GloriaFood, or ChowNow, to manage online orders and deliveries.

Financial Projections

To estimate your financial projections, consider:

1. **Menu pricing:** Price your menu items competitively, with a profit margin of 15-20%.
2. **Food costs:** Estimate your food costs, including ingredients, labor, and overheads.
3. **Marketing expenses:** Budget for marketing expenses, including social media advertising, influencer partnerships, and email marketing.
4. **Rent and utilities:** Calculate your rent, utilities, and equipment costs.

Type something...



Build



Model: llama-3-3-70b-instruct ▼



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Vector index

[Clear chat](#)

startup_blueprint ▼

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Tools

[Add a tool](#)[Create custom tool](#)

Agent preview



VistaraAI 10:15 PM

Here is a complete blueprint for your cloud kitchen project:

Executive Summary

Our cloud kitchen project aims to provide a unique and innovative food experience to customers in the city. We will offer a variety of cuisines, including Indian, Chinese, Italian, and Mexican, through a user-friendly online platform. Our goal is to become the leading cloud kitchen brand in the city, known for our high-quality food, excellent customer service, and competitive pricing.

Business Model

Our business model will be based on the following key elements:

1. **Cloud Kitchen:** We will operate a cloud kitchen, which will be a centralized kitchen that prepares and delivers food to customers.
2. **Online Platform:** We will have a user-friendly online platform that allows customers to order food from our menu.
3. **Delivery Partners:** We will partner with delivery companies to deliver food to customers.
4. **Marketing and Promotion:** We will use social media, online advertising, and other marketing channels to promote our brand and attract customers.

Menu and Pricing

CONCLUSION

- The proposed agent bridges the gap between idea and execution.
- Saves time and effort for new founders.
- Eliminates ambiguity in startup planning.
- Leverages AI and IBM cloud to scale guidance delivery.

GITHUB LINK

<https://github.com/Manollekha/VistaraAI---Startup-Blueprint-Generator>

FUTURE SCOPE

Integration with more
real-time startup and
funding APIs

Support for regional
languages and voice-
based queries

Expansion to
mentorship matching
and grant applications

Advanced analytics on
blueprint effectiveness

IBM CERTIFICATIONS



IBM CERTIFICATIONS

IBM SkillsBuild

Completion Certificate



This certificate is presented to

Manasvi Shetty

for the completion of

**Lab: Retrieval Augmented Generation with
LangChain**

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 15 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU