

IBM AICTE PROJECT

STARTUP BLUEPRINT GENERATOR AGENT (VENTUREBOT)

Presented By:

Student name : Avni Jain

College Name : Ambedkar DSEU Shakarpur Campus - I

Department : Computer Science Engineering

OUTLINE

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

PROBLEM STATEMENT

- A Startup Blueprint Generator Agent, powered by RAG (Retrieval-Augmented Generation), transforms raw startup ideas into complete, actionable business blueprints. It retrieves relevant data on market research, funding options, competitor analysis, revenue models, government schemes, and legal requirements from startup portals, incubator databases, and policy documents. Users can describe their idea in simple terms, and the agent provides a structured plan including business model canvas, estimated budget, go-to-market strategy, and potential investor connections. The agent eliminates ambiguity and accelerates the journey from idea to implementation. This AI-driven assistant empowers aspiring entrepreneurs with clarity, resources, and direction to launch their ventures successfully
- **Proposed Solution:**
An AI-powered agent (VentureBot) that uses NLP, Retrieval-Augmented Generation (RAG), and IBM Granite to convert simple startup ideas into complete business blueprints, including market research, funding options, legal needs, budgets, and go-to-market strategies.

TECHNOLOGY USED

- **IBM Cloud Lite Services** : A free-tier cloud environment offering essential tools to build, deploy, and scale AI-powered applications.
- **Natural Language Processing (NLP)** : Enables the agent to understand and process user input in plain language.
- **Retrieval-Augmented Generation (RAG)** : Combines real-time information retrieval with AI generation to provide accurate and context-rich responses.
- **IBM Granite Model** : A family of powerful large language models used for reasoning, content generation, and task automation.

IBM CLOUD SERVICES USED

- **IBM Cloud Watsonx.ai Studio** : An integrated environment to build, train, and evaluate AI models, including prompt-based workflows with foundation models.
- **IBM Cloud Watsonx.ai Runtime** : Provides scalable and secure model serving to run AI workloads and deploy foundation models in production.
- **IBM Cloud Agent Lab** : A low-code platform to create and manage agentic AI systems that plan, reason, and use tools autonomously.
- **IBM Granite Foundation Model** : IBM's family of trusted, enterprise-grade large language models optimized for tasks like summarization, generation, and classification.

WOW FACTORS

- VentureBot simplifies and accelerates the startup journey by turning raw ideas into fully-structured business blueprints. It empowers aspiring entrepreneurs with strategic clarity, reduces planning time, and connects them to the right resources — all through one intelligent, AI-driven agent.
- **Key Highlights:**
 - ❑ **Smart idea interpretation** that understands natural language and extracts business context
 - ❑ **Real-time knowledge retrieval** from startup databases, schemes, and policy documents using RAG
 - ❑ **Automatic generation of business model canvas** tailored to the domain and target market
 - ❑ **Personalized budget estimation** based on industry, scale, and region
 - ❑ **Investor and incubator recommendations** matched to the startup's stage and sector
 - ❑ **Built-in go-to-market strategy suggestions** with actionable channel and growth insights
 - ❑ **Legal and compliance guidance** customized to your business type and location

END USERS

- **Aspiring Entrepreneurs**

- ☐ Individuals with a startup idea but no formal business background.

- **College & University Incubators**

- ☐ Startup cells, E-Cells, and university incubators helping students formalize and validate ideas.

- **Hackathon Participants**

- ☐ Needing fast, well-structured business ideas.

- **Freelancers**

- ☐ Individuals looking to test and plan business ideas before investing resources.

- **Government or NGO Startup Programs**

- ☐ Agencies supporting rural or urban entrepreneurship that want to provide instant business planning tools.
- ☐ Schemes promoting MSMEs, women-led startups, or tech-based entrepreneurship

RESULTS

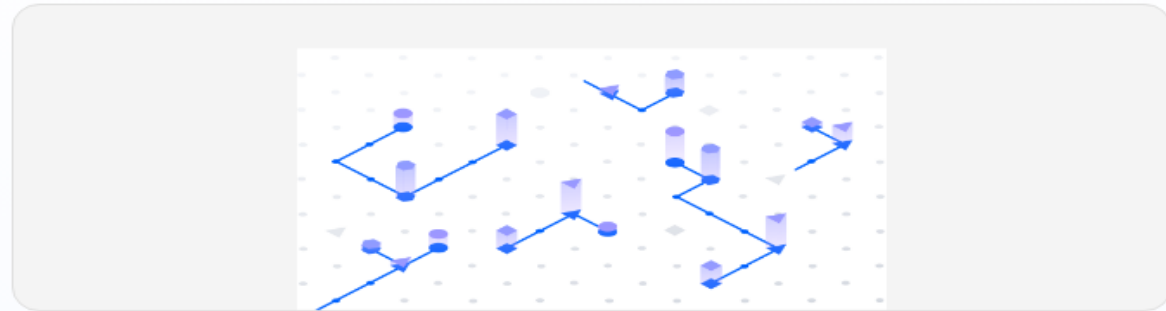
Agent preview



VentureBot(Startup Blueprint Generator Agent) 12:06 PM

Welcome to VentureBot(Startup Blueprint Generator Agent)

Your smart AI partner that transforms startup ideas into actionable business blueprints.



Sample questions

Can you help build a business plan for my idea?



Who are my potential competitors?



How do I find my target market?



What funding options are available for my startup?



Type something...



RESULTS

Agent preview



You: 12:12 PM

Hiiii



VentureBot(Startup Blueprint Generator Agent) 12:12 PM

👋 Hello! Welcome to VentureBot. Ready to turn your startup idea into a solid business plan? Just describe your idea, or select a question to start with. No fancy jargon needed — let's keep it simple!

► How did I get this answer?



You: 12:12 PM

A delivery app just for midnight snacks



VentureBot(Startup Blueprint Generator Agent) 12:12 PM

🍽️📱 Midnight snack delivery app — I like it! Here's a quick plan based on your idea:

1. Business Model Canvas:

- *Customer Segments:* Young adults and night owls who crave late-night treats.
- *Value Proposition:* Variety of popular fast food, 24/7 availability, quick and reliable delivery.
- *Channels:* A mobile app and website for ordering, social media for marketing.
- *Customer Relationships:* User-friendly app interface, prompt customer service, loyalty programs.
- *Revenue Streams:* Commission on each order, potential subscription model for frequent users.
- *Key Activities:* Building and maintaining the app, managing delivery partners, sourcing restaurants.
- *Key Resources:* App developers, delivery personnel, restaurant partnerships.
- *Key Partners:* Restaurants, food delivery services, payment gateways.

|Type something...



RESULTS

Agent preview



You: 12:09 PM

A dog-walking robot that works with voice commands



VentureBot(Startup Blueprint Generator Agent) 12:09 PM

👋 Exciting idea! Let's dive into creating your startup plan for a dog-walking robot with voice command functionality. Here's an outline of how I can assist you:

1. **Business Model Canvas:** We'll create a visual chart to describe your business model, including key partners, customer segments, value propositions, channels, customer relationships, revenue streams, key resources, key activities, and cost structure.
2. **Funding Options:** I'll help you explore various funding options such as angel investors, venture capital, crowdfunding, and grants specifically geared toward innovative tech startups.
3. **Legal Setup:** I'll provide guidance on essential legal steps, like choosing the right business entity, registering your business, securing patents, and understanding intellectual property rights for your robot design.
4. **Government Schemes:** I'll research and summarize government schemes, subsidies, or tax benefits that could support your startup journey, particularly focusing on technology and innovation sectors.
5. **Market & Competitor Analysis:** We'll perform a SWOT analysis (Strengths, Weaknesses, Opportunities, Threats) to evaluate your market position, and conduct competitive analysis to

Type something...



RESULTS

Deployed AI Agent

IBM watsonx

Upgrade ?

Avni Jain's Account

Dallas

AJ

[Deployment spaces](#) / [Agentic AI](#) / [VentureBot\(Startup Blueprint Generator Agent \)](#)


VentureBot(Startup Blueprint Generator Agent) ✓ Deployed Online

[API reference](#) [Test](#) [Preview](#)

New chat +

VentureBot(Startup Blueprint Generator Agent) 12:21 PM

Welcome to VentureBot(Startup Blueprint Generator Agent)
Your smart AI partner that transforms startup ideas into actionable business blueprints.



Quick start samples

Can you help build a business plan for my idea? →

Who are my potential competitors? →

How do I find my target market?

What funding options are available for my startup?

Type something... →

CONCLUSION

- VentureBot crafts complete startup blueprints, from business models to go-to-market strategies, in just a few clicks.
- It saves time by automating research, budgeting, and investor discovery — no spreadsheets, no stress.
- This intelligent agent boosts clarity, confidence, and execution speed for entrepreneurs at any stage.
- VentureBot redefines early-stage innovation — making startup planning smart, fast, and founder-friendly.

GITHUB LINK

- <https://github.com/AvniJ14/Agentic-AI>

FUTURE SCOPE

- Multilingual Startup Guidance
- Voice-Driven Idea-to-Blueprint Generation
- Real-Time Collaboration with Co-founders & Mentors
- Trend Spotting and Market Gap Discovery
- Integration with Startup Ecosystems & Funding Platforms
- AI-Assisted Business Pitch & Proposal Writing

IBM CERTIFICATIONS

In recognition of the commitment to achieve
professional excellence



Avni Jain

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 18, 2025

Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/d2b37cd1-806d-447c-93ed-ed21d4b3bc5>



IBM CERTIFICATIONS

IBM SkillsBuild	Completion Certificate
	<p>This certificate is presented to</p> <p>Avni Jain</p> <p>for the completion of</p> <p>Lab: Retrieval Augmented Generation with LangChain</p> <p>(ALM-COURSE_3824998)</p> <p>According to the Adobe Learning Manager system of record</p>
Completion date: 24 Jul 2025 (GMT)	Learning hours: 20 mins



THANK YOU