



Generative AI based Conversational Agent

From Secure Servers to the Field's Edge



<https://iknow.carnotresearch.com>



*Agentic integration with WhatsApp, Email,
Telegram, Discord, and Edge Wearables*





I carry Knowledge....

- Runs entirely within your secure environment with **no internet outbound**, ensuring full data privacy.
- Responses are strictly grounded in verified, on-prem data with **zero hallucinations**.
- Seamless **multilingual** support for major Indian and global languages.
- Handles **multimodal** inputs—voice, text, documents, and images—via integrated edge devices.
- **Knowledge Graph-powered** for smarter search and easy comprehension of complex information.
- **Easily integrates** with on-prem messaging, email, and external channels such as WhatsApp, Telegram, Discord, and Edge wearables.
- Maintains **conversation context** across multiple interactions for accurate and coherent answers.
- Enables **hands-free operation** through voice-enabled question-answering, leveraging edge device capabilities.

Generative AI based Conversational Agent

On-Premise Device Deployment

- Fully secure, standalone setup within your organization
- Ensures sensitive data stays within your network

Cloud-Accessible via Any Device

- Access iCarkno from PCs, laptops, or mobile devices
- Seamless collaboration with real-time updates

Edge Device Personal Assistant

- Compact AI assistant at the edge for instant, localized insights
- Supports voice, text, and image inputs for hands-free interaction

Generative AI based Conversational Agent

for Defence & Security

- Soldiers use the headset for voice Q&A and goggles for visual intelligence, such as document or map analysis—all offline.
- Combine live visual feed with pre-loaded GIS data to provide real-time situational awareness.
- Translate and summarize local language intercepts via audio.

for Healthcare & Emergency Response

- Paramedics query treatment protocols by voice while administering first aid. Goggles assist in wound assessment.
- Offline access to evacuation routes and crisis protocols when networks are unavailable.

The screenshot displays the iCarkno web interface. On the left, there is a sidebar with a 'New Container' button and a list of containers: 'Agri-Business Policy', 'Motor Vehicle Act', 'Knowledge container 11', and 'RTI Manual'. The main content area shows a document with the following sections:

- 10 Eligible Persons/Organizations**: Individuals, Group of Farmers / growers, FPOs/FPCs registered under respective companies Act/cooperatives societies Act/ societies registration Act (with minimum 10 members of farmer members), Partnership/ Proprietary firms, LLP, Companies, Corporations, Self Help Groups (SHGs), Cooperatives, Cooperative Marketing Federations engaged in Agro & Food processing would be eligible for financial assistance as per the various schemes to be framed for implementation of Rajasthan Agro-processing, Agri-business & Agri-export Promotion Policy, 2019.
- 11 Eligible Sectors**: All the major activities covered under the sectors listed in the Annexure (I) shall qualify for the benefits admissible under this Policy. The activities listed in Annexure (II) shall not be eligible for the benefits under this Policy. The ineligible items/shoppers given in Annexure (III), shall not be considered for requesting the capital investment subsidy under the Policy.

On the right, a chat window is open with the query: 'Your Query: Who's eligible for this'. The response is titled 'Agri-Business Policy' and lists eligible entities for the benefits under the Rajasthan Agro-processing, Agribusiness & Agri-export Promotion Policy, 2019, including individuals, groups of farmers/growers, Farmer Producer Organizations (FPOs)/Farmer Producer Companies (FPCs) registered under the respective Companies Act, cooperative societies, societies registered under the Societies Registration Act (with a minimum of 50 farmer members), partnership/proprietary firms, Limited Liability Partnerships (LLPs), companies, corporations, self-help groups (SHGs), cooperatives, and Cooperative Marketing Federations engaged in agro and food processing.

Below the response, there are 'Suggested Questions':

- What are the eligible sectors under the policy?
- What kind of subsidies are available under this policy?

At the bottom of the chat window, there is a 'Download Chat History' button and a text input field labeled 'Type your question'.



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- Works with **multimodal inputs**- voice, text, documents, and images.
- **Knowledge Graph**-powered for smarter search and easy understanding of complex information.
- Easily **integrated with on premise messaging**, email, external channels such as whatsapp, telegram, discord etc.

Generative AI based Conversational Agent

Institutions and enterprises often sit on vast repositories of structured and unstructured data. But...

- Users **struggle to access** accurate, **contextual information** easily.
- **Institutional memory** is not leveraged effectively.
- Public-facing AI tools and chatbots risk, **data leakage**, and provide inconsistent and unauthenticated responses.
- Cloud-based solutions raise red flags for **privacy, compliance, and data sovereignty**.

The Knowledge dilemma !

for Governments

- Deliver consistent, secure citizen services with minimal training overhead.
- Protect sensitive information and maintain compliance.
- Automate frontline queries and workflows; analyse existing data.
- Monitor OSINT and other channels for emergency response.
- Act as Co-pilot for decision making.

for Enterprises

- Turn internal documents into a smart knowledge assistant.
- Reduce dependency on siloed support teams.
- Enhance productivity without compromising IP.

Your Query: What is the bill amount?

02:55 PM

icarKno:

बिल राशि \$47.00 है यदि प्रत्येक स्थान व्यक्तिगत लॉट मीटर्स से सुसज्जित है। यदि प्रत्येक स्थान व्यक्तिगत लॉट मीटर्स से सुसज्जित नहीं है, तो बिल राशि \$60.38 है।

References:

Electricity_Bill.pdf pg: 1

Suggested Questions

- मीटर रीडिंग कैसे की जाती है?
- प्रभावी दर प्रति किलोवाट घंटा कैसे गणना की जाती है?

Secure, reliable, enterprise-level Knowledge Agent for data insights, analysis and transparency

Powering Agentic Interaction, Co-Pilots, Digital Assistants, Interactive LMS, Chat & Voice Bots, Deep Analysis, Data Harmonisation



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The screenshot shows the icarKno Chat interface. At the top, there are navigation links: About Us, Pricing, Help, Contextual, Creative, and Logout. The main content area displays a query: "Your Query: describe some rules related to government account" (08:03 PM). The response from icarKno includes a welcome message, a description of the chat agent, and a list of capabilities: Summarise the document, Give me any five silent issues highlighted in the document, and Explain one feature mentioned in the document. Below the response, there are two references: "Accounts of the Union Government shall be prepared every year showing the receipts and disbursements for the year, surplus or deficit generated during the year and changes in Government liabilities and assets." and "Here are some important rules related to government accounts: 1. Rule 71 - Preparation and Presentation of Accounts: This rule states that the accounts must reflect the actual cash receipts and disbursements during a financial year, rather than just amounts due. 2. Rule 72 - Form of Accounts: Accounts must be maintained in a prescribed form as". A "Download Chat History" button is visible. At the bottom, there is a text input field with the placeholder "Type your question" and a "Send" button.



Generative AI based Conversational Agent

Accurate On-Premise High Privacy Multi-Lingual Knowledge Agent

Compute & Infrastructure Partner



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Agentic integration with WhatsApp, Email, Telegram, Discord, etc

