



Innova's Knowledge Bot (KBOT):

Extracting Conversational Intelligence from Unstructured Documents & Data Insights



Unleash the Power of Your Content (Structured & Unstructured) with Innova's Gen AI Framework

Organizations are overwhelmed by vast amounts of data, yet critical knowledge often remains locked away in unstructured formats like documents, reports, and research. Traditional chatbots excel at handling structured data but fall short when tackling the 80% of enterprise content that resides in unstructured sources.

Introducing Innova's GenAI Knowledge Engine (KBOT):

A transformative AI-powered solution designed to unlock intelligence from the enterprise content, be it structured or unstructured data. Optimized for the Google Cloud Platform (GCP), it empowers businesses with reliable insights while maintaining cost and performance efficiency.

KBOT integrates seamlessly with disparate repositories, consolidating information into a unified knowledge base. Leveraging advanced AI techniques, it enables intuitive question-and-answer interactions, empowering businesses to access insights previously buried in their content.

Why Choose a Private Conversational Gen AI-based KBOT?

1. Privacy & Security:

- **Dedicated Private Cloud Deployment:** Benefit from a single-tenant deployment within a secure, isolated environment, ensuring complete data sovereignty and control
- **Seamless Authentication:** Leverage existing enterprise security infrastructure with Active Directory Single Sign-On (SSO) for streamlined access and enhanced security

2. Cost-Optimized Performance:

- **Consumption-Based spend:** Pay only for actual usage, eliminating per-user licensing fees and maximizing cost efficiency
- **Model Agnostic Architecture:** Choose from a diverse range of generative AI models, including cost-effective

open-source options tailored to your specific needs

- Granular Usage Controls:

Implement comprehensive usage policies and quotas to optimize resource allocation and minimize unexpected costs

3. Unified Knowledge Integration:

- Native SharePoint Indexing:

Effortlessly index and integrate content from SharePoint, unlocking valuable insights from your existing document repositories

- Flexible Data Ingestion:

Support for ad hoc file uploads, batch processing, and direct integration with structured data sources via API/SQL

- AI-Enhanced Data Sources:

Create dynamic knowledge bases enriched with extracted features from unstructured content, enabling more intelligent conversational experiences

4. Intelligent Content Processing:

- **Advanced Semantic Classification:** Automatically classify documents and tag metadata based on semantic content, facilitating intelligent search and knowledge organization
- **Key Feature Extraction:** Extract key entities, relationships, and topics from documents to power more insightful and context-aware conversational interactions

5. Unparalleled Customization & Control:

- **Fully Customizable Source Code:** Gain complete access to the source code for maximum flexibility and control over your GenAI ecosystem
- **Freedom and Flexibility:** Architect and deploy your own customized workflows
- **Use Case-Specific Plugins:** Develop and integrate custom plug-ins to tailor the KBOT to your unique business requirements and industry-specific use cases

Distinct Advantages of Innova's Google-Powered Gen AI Enterprise KBOT

Knowledge Discovery

- **Seamless Enterprise Content Ingestion:**
Automated ingestion pipeline for documents from diverse sources (SharePoint, Confluence, file systems) with support for multiple formats (PDF, DOCX, TXT, etc.)
- **Voice-Powered Natural Language Queries (NLQ):**
Enable users to interact with enterprise knowledge through natural language voice commands, powered by advanced speech recognition and intent understanding
- **Intelligent Content Processing:** Automated content classification, extraction of key entities, and semantic interpretation using advanced NLP models
- **Extensible GenAI Platform:**
A modular, API-driven platform designed for rapid prototyping and customization of generative AI workflows
- **Diverse Document Intelligence Use Cases:**
Power a range of document intelligence applications, including:
 - Intelligent document summarization
 - Automated semantic index construction
 - AI-powered question answering and chatbots
 - Content enrichment and transformation

Employee Experience

- **Instant Information Retrieval:** Sub-second response times for information queries through optimized indexing and search algorithms
- **Intuitive Navigation of Complex Documentation:**
Interactive exploration and visualization of knowledge graphs for easy understanding of relationships within documents.
- **Minimize Manual Search:**
Reduce reliance on manual search by leveraging AI-powered recommendations and proactive knowledge delivery.
- **Boost Operational Efficiency:** Empower employees with the right information at the right time, streamlining workflows and improving decision-making.

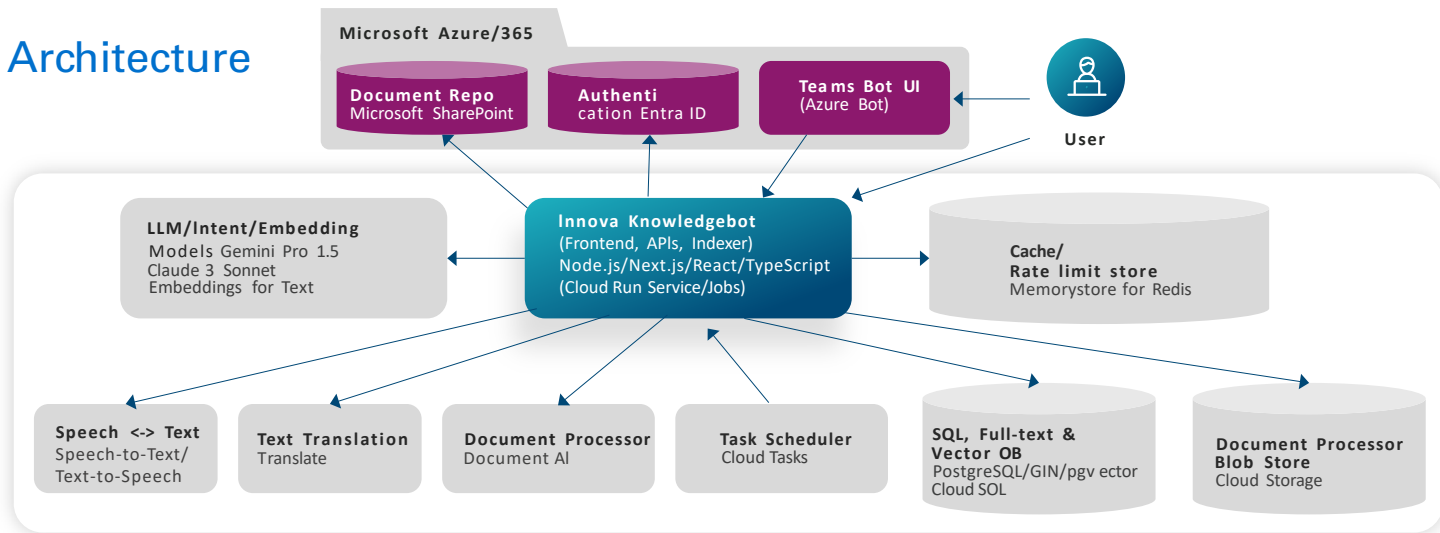
Gains

- **Boost Productivity:** Unlock personalized insights and recommendations, empowering employees to make faster, more informed decisions.
- **Quantifiable Productivity Gains:** Achieve productivity enhancements of 20-50% through optimized knowledge access and AI-powered task automation.

Exclusive Features of the Innova's KBOT

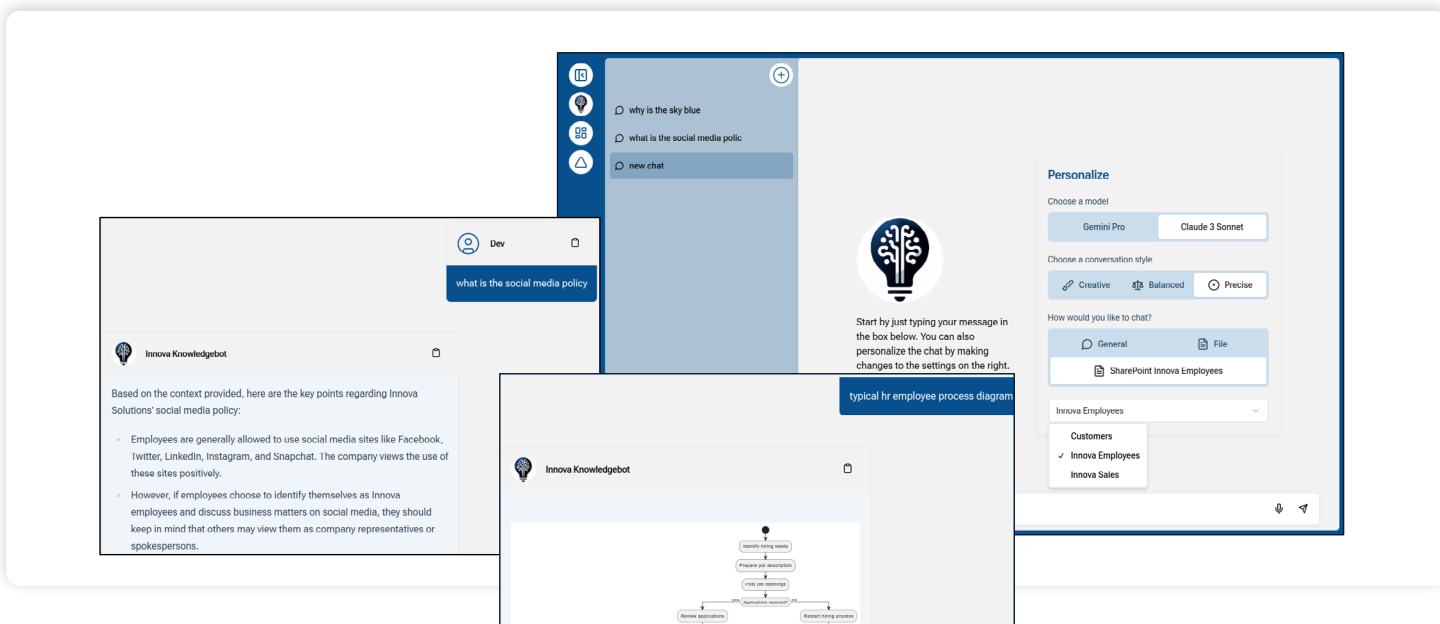
- **User-Friendly Interfaces:**
Accessible via web and Microsoft Teams
- **Secure Deployment:**
Designed for implementation in private, secure environments
- **Scalability:** Supports thousands to tens of thousands of users effortlessly
- **Dynamic Capabilities:**
Enables highly contextual, real-time functionalities
- **Data Integration:**
Seamless integration with structured data and customizable features
- **Single Sign-On (SSO):**
Incorporates Microsoft Entra for secure, hassle-free access
- **Cost Efficiency:** Offers automatic throttling and multi-user access to optimize costs
- **Model Compatibility:**
Supports leading AI models, including Gemini, Claude 3, and OpenAI
- **Document Indexing:**
Integrates with SharePoint to index millions of documents for enhanced grounding

Architecture



Knowledge Bot in Action

Chat with SharePoint documents. Generate process flows, Contract Insights and more!



Knowledge Bot Use Cases

- **Self-service:** HR policies, employee profiles, leave requests, and such others
- **Legal:** Content summarization and generation
- **Finance:** Natural language access to financial data and report generation
- **Services:** Contract management and RFP responses
- **Operations:** Streamlining Operations
- **Software Development:** Code generation, analysis, and test case/script generation

About Innova Solutions

Innova Solutions is a trusted global technology partner specializing in transformative digital solutions for complex, real-world challenges. With teams across North America, Europe, & APAC, we blend exceptional talent and advanced technologies to enhance operations and drive sustainable revenue growth for our customers. Partnering with technology leaders who share our passion for bold innovation, we deliver cutting-edge solutions such as generative AI, data & analytics, cloud computing, digital product engineering, and cybersecurity. Since 1998, we've proudly supported leading organizations across critical industries—including Banking & Financial Services, Healthcare, Insurance, and Communications—with sector-specific solutions to tackle evolving business needs.



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