# Real-World Use Cases

RAG is transforming industries by enabling LLMs to access accurate, up-to-date, and domain-specific knowledge. From healthcare chatbots to legal assistants and enterprise search, RAG powers smarter, context-aware applications.

# Real-World Use Cases

## 1. Healthcare and Medical AI Assistants

| Use Case | Description |
| --- | --- |
| Clinical Q&A | Doctors and nurses can ask questions like "What are the side effects of X drug?" and get answers grounded in medical literature or hospital guidelines. |
| Patient Education Bots | RAG can retrieve answers from medical documents, treatment plans, or patient instructions to explain procedures or medications in layman's terms. |
| Medical Coding Assistants | Suggest accurate ICD/CPT codes by retrieving from medical coding manuals and guidelines. |

# Real-World Use Cases

## 2. Enterprise Knowledge Assistants

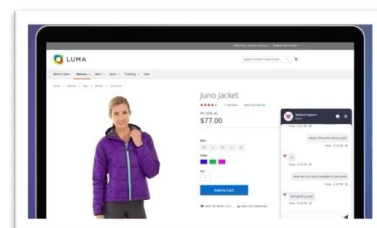| Use Case | Description |
|---|---|
| Internal Policy Chatbot | Employees can ask HR, finance, or IT-related questions and get responses based on company policies, SOPs, and documentation. |
| Onboarding Assistant | New hires can interact with a chatbot to understand processes, benefits, org structure, etc. |
| Sales Enablement | Salespeople ask questions about product specs or competitor comparisons, with responses pulled from PDFs, wikis, and product sheets. |

# Real-World Use Cases

## 3. E-commerce & Customer Support

| Use Case | Description |
|---|---|
| Return Policy Assistant | RAG bots retrieve answers directly from store policies to provide clear return/refund instructions. |
| Product FAQ Bot | Answers customer questions using product manuals, specifications, and reviews. |
| Multilingual Support | RAG retrieves relevant answers and translates them into the user's language using the LLM. |

# Real-World Use Cases

## 4. Education and Tutoring

| Use Case | Description |
|---|---|
| Curriculum-based Q&A Bot | Retrieves answers from textbooks, course notes, or syllabi to support students. |
| Assignment Assistance | Helps students understand a topic by retrieving relevant academic content. |
| Exam Prep Assistant | Based on custom notes or PDFs (e.g., NCERT, SAT, GATE), generates focused study guides and answers. |



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## 5. Legal Research and Contract Review

| Use Case | Description |
|---|---|
| Case Law Assistant | Retrieves precedent cases or statutes and summarizes them for lawyers or students. |
| Contract Q&A | Users can upload legal contracts and ask questions like "What are the termination clauses?" |
| Compliance Bots | Answers based on GDPR, HIPAA, and other regulatory documents. |



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