Medical Chatbot

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Contents

What is the Medical Chatbot?

Generative AI Chat Application for users in the Medical domain, that:

- ✓ **explains** its answers,

- ✓ **cites references**,

- ✓ **updates** medical knowledge daily,

- ✓ lets you create **custom knowledge bases**,

- ✓ or directly **query your documents**.

RAG Architecture

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What

- Combination of information retrieval and text generation

- Proprietary Medical Large Language Model

- Daily Updated Context Information
  - Medical Knowledge Bases
  - Custom Knowledge Bases

Why

- Explainable results with citations and referencing

- Prevent hallucinations

Features

✓ **Explainable Responses with Citations**

✓ **Medical Conversations**

✓ **Summarization of Medical Content**

✓ **Guardrails and Style Customization**

✓ **Bookmarks and Conversation History**

✓ **Authentication and Authorization**

Agents

✓**Medical Research**

✓**Literature Review**

✓**Doc Q&A**

✓**Web Search**

✓**Medical Agents**

- De-identification, Obfuscation, Extract Medical Entities, Extract Oncological Entities, Extract Drug Entities, Extract Radiological Entities, Extract Adverse Drug Events, Extract Voice of the Patient, …

Medical Chatbot

What it is:
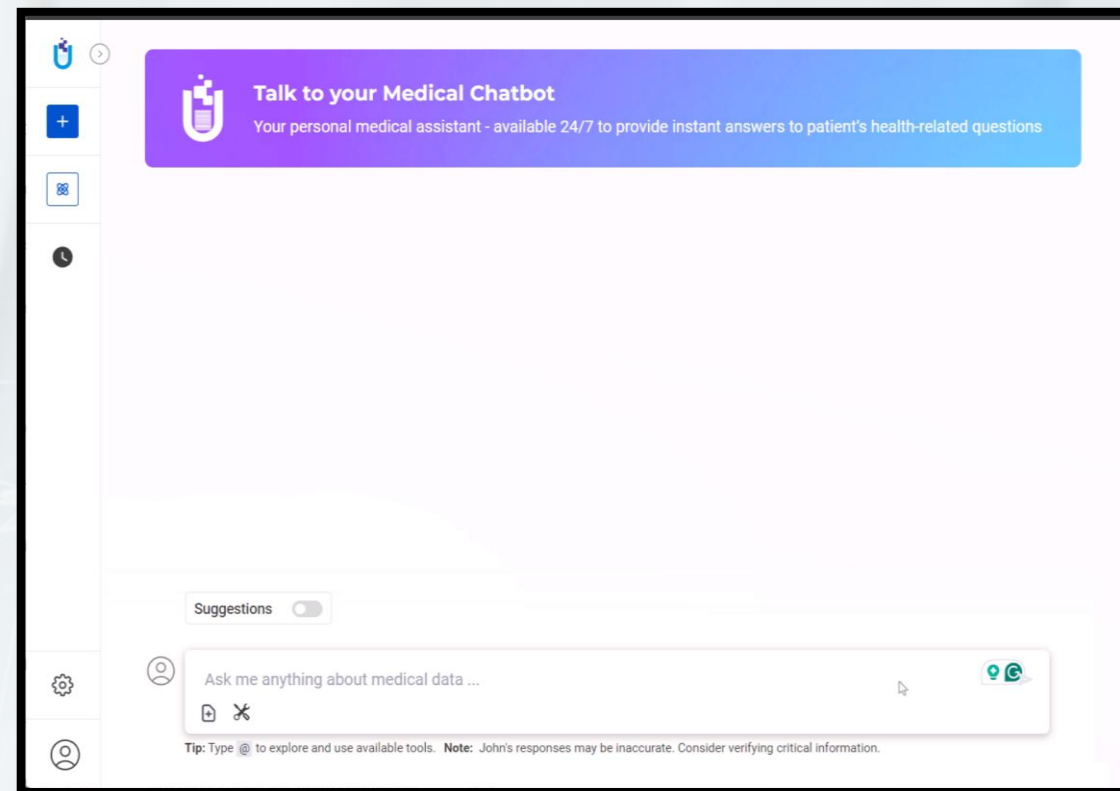
- Information Retrieval + Text Generation

- Proprietary Medical Large Language Models

- Daily Updated Context Information
  - Medical Knowledge Bases
  - Custom Knowledge Bases

State-of-the-Art Accuracy

Use a Medical LLM that outperforms GPT-4o on tasks like clinical assessment (+6%), research comprehension (+4.2%), and clinical case analysis (+9%)

In a blind evaluation by practicing medical doctors, the Small Medical LLM was preferred over GPT-4o **45% to 92% more often** on clinical text summarization and information extraction

Designed for privacy and compliance, the Medical LLM runs inside your cloud

Average Performance on OpenMed Benchmarks

JSL Med   GPT-4o   Med-PaLM-2

87.13%
83.12%
84.50%

Source: Average Performance on OpenMed Benchmarks, 2025

DEMO

1. https://login.chatbot.johnsnowlabs.com/
2. API Access example Notebook

Make it Yours

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- ✓ **Custom Knowledge Bases**
- ✓ **Custom Tone of Voice**
- ✓ **Custom Guardrails**
- ✓ **Single Sign On**
- ✓ **Team Management**
- ✓ **Role Based Access**
- ✓ **API**

Offerings

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Professional
Chat from your browser

- Proprietary Large Language Model tuned for Healthcare
- Medical Knowledge Updated Daily
- Medical Conversations
- Literature Review
- Document Q&A
- Smart Ranking of References
- Safeguards
- Prevent Hallucinations
- Customizable Tone of Voice
- Search Bookmarks and Responses

Enterprise
Private for your team & data

- Everything **Professional** +
- Private On Premise Deployment
- Unlimited Custom Knowledge Bases
- Connect Your Own Data Sources
- Custom Brand Voice and Safeguards
- Unlimited Users and Groups
- Role Based Access Management
- Single Sign-On
- API Access
- Designed to Scale

Get Started

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https://login.chatbot.johnsnowlabs.com/
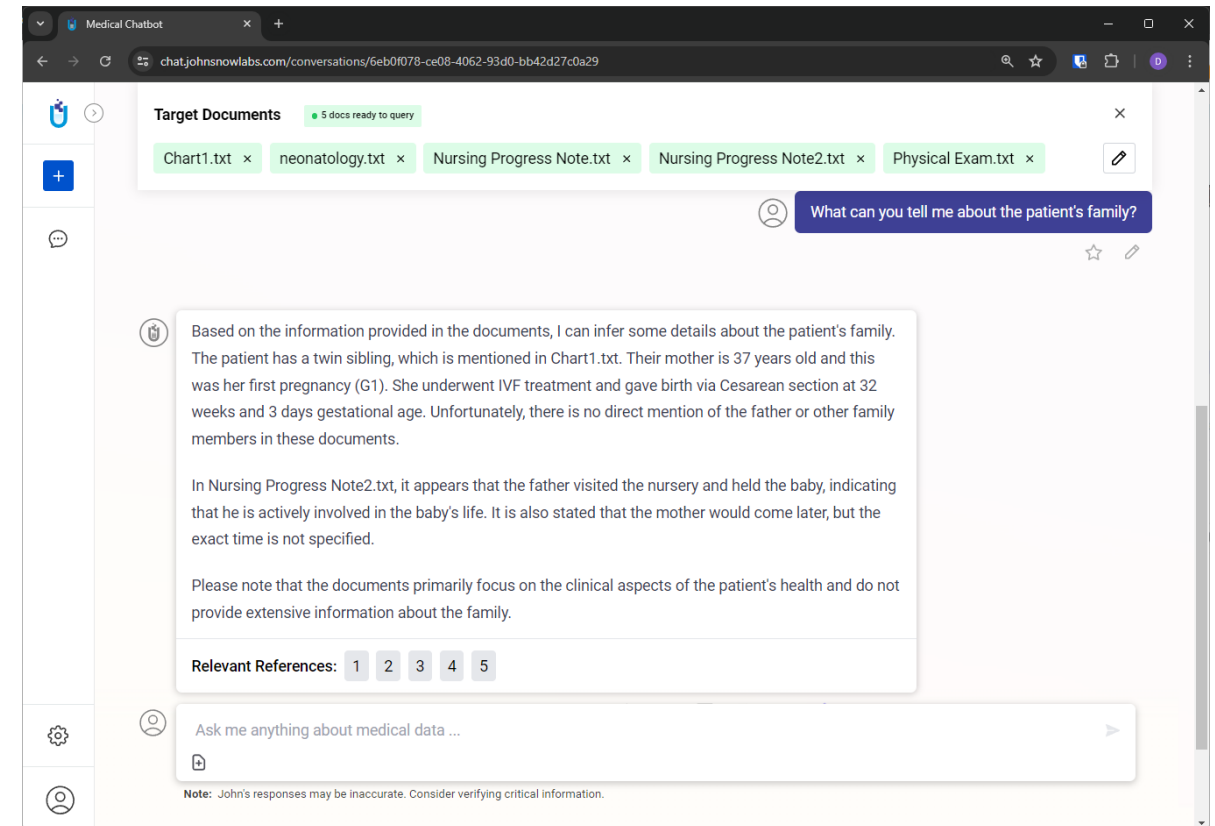

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