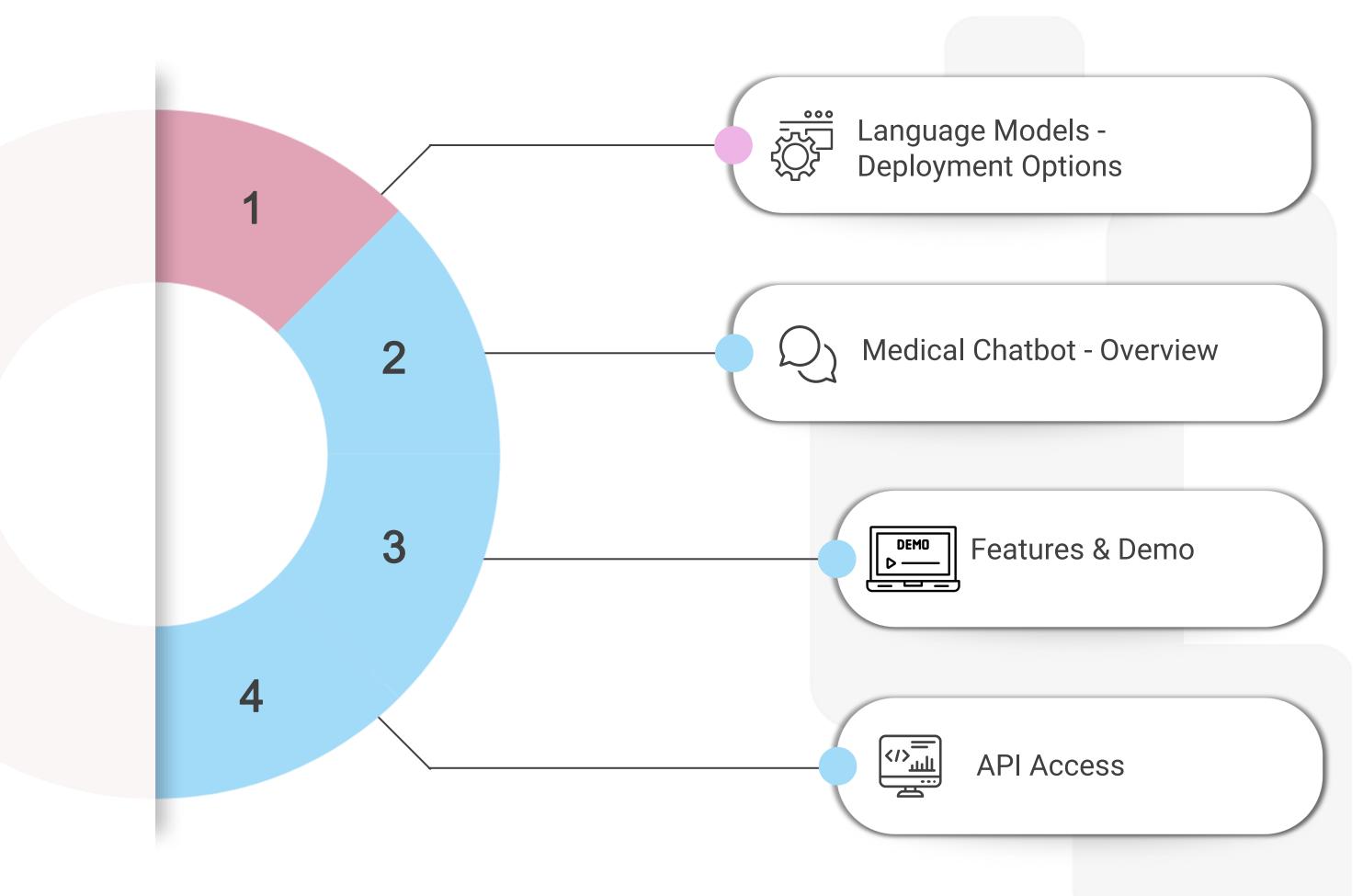
Medical Language Models Deployment Options

Use Case: Medical Chatbot



Dia Trambitas
Head of Product
John Snow Labs



Outline

Deployment Options – AMI/VM Products







John Snow Labs - Healthcare NLP

By John Snow Labs | Ver 5.4.0

★★★★ 1 AWS review | 2 external reviews



Starting from \$11.88 to \$570.24/hr for software + AWS usage fees

John Snow Labs - Healthcare NLP Libraries are designed to help organizations extract insights from unstructured documents and enable faster, more accurate data analysis. Healthcare NLP is a cutting-edge natural language processing solution designed specifically for the healthcare domain, leveraging...



Pricing information
Starting at \$4.455/hour
+ Azure infrastructure costs

Get It Now

Healthcare NLP - John Snow Labs ♡ Save to my list
John Snow Labs Inc

★ 5.0 (1 ratings)

Free trial

Plans + Pricing

Ratings + reviews

NLP & OCR libraries, models and notebooks for text and image annotation and model training & tuning

Overview

Overview



John Snow Labs - Finance and Legal NLP

By John Snow Labs | Ver 5.4.0

2 external reviews



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John Snow Labs - Finance and Legal NLP

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Get It Now

Pricing information Starting at \$4.455/hou

Medical Language Models – API Endpoints



Privacy

Sensitive data is kept secure within your controlled environment, ensuring compliance with data protection regulations.



Effortless Integration

Seamless API integration with existing workflows on cloud platforms, reducing complexity and accelerating time-to-value.



Speed

Quick subscription and instant deployment means faster development cycles, enabling teams to focus on products and/or solutions building.



Maintenance

Regular updates and model improvements are managed behind the scenes, ensuring your deployments stay up-to-date with minimal operational overhead.



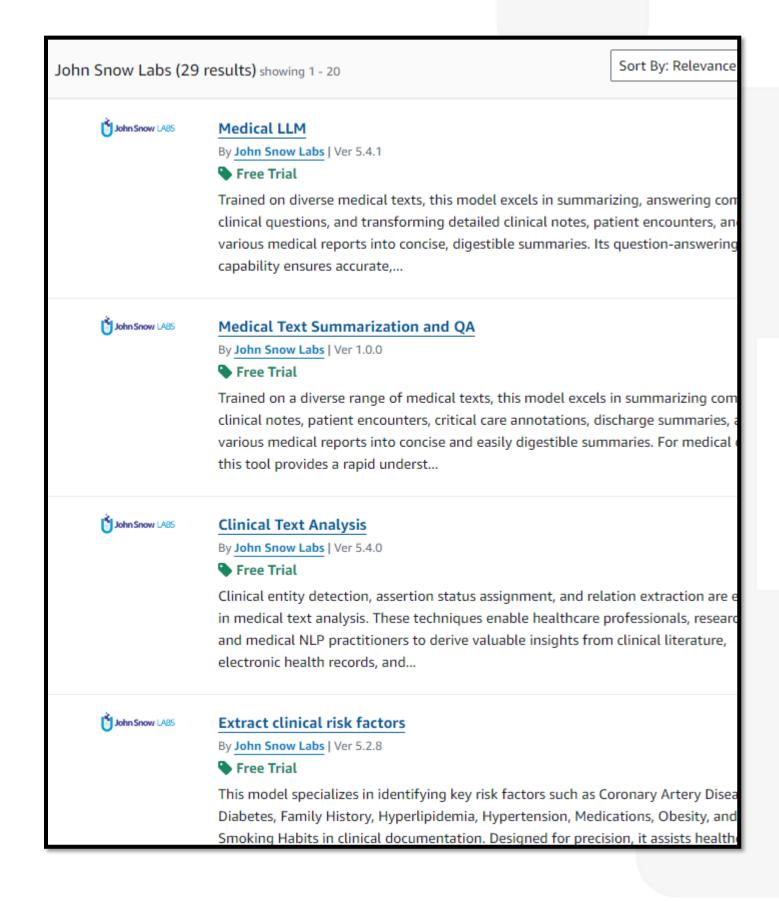
Scalability

Designed to scale dynamically, adapting to varying workloads without compromising on performance or reliability.

Deployment Options – Private API Endpoints



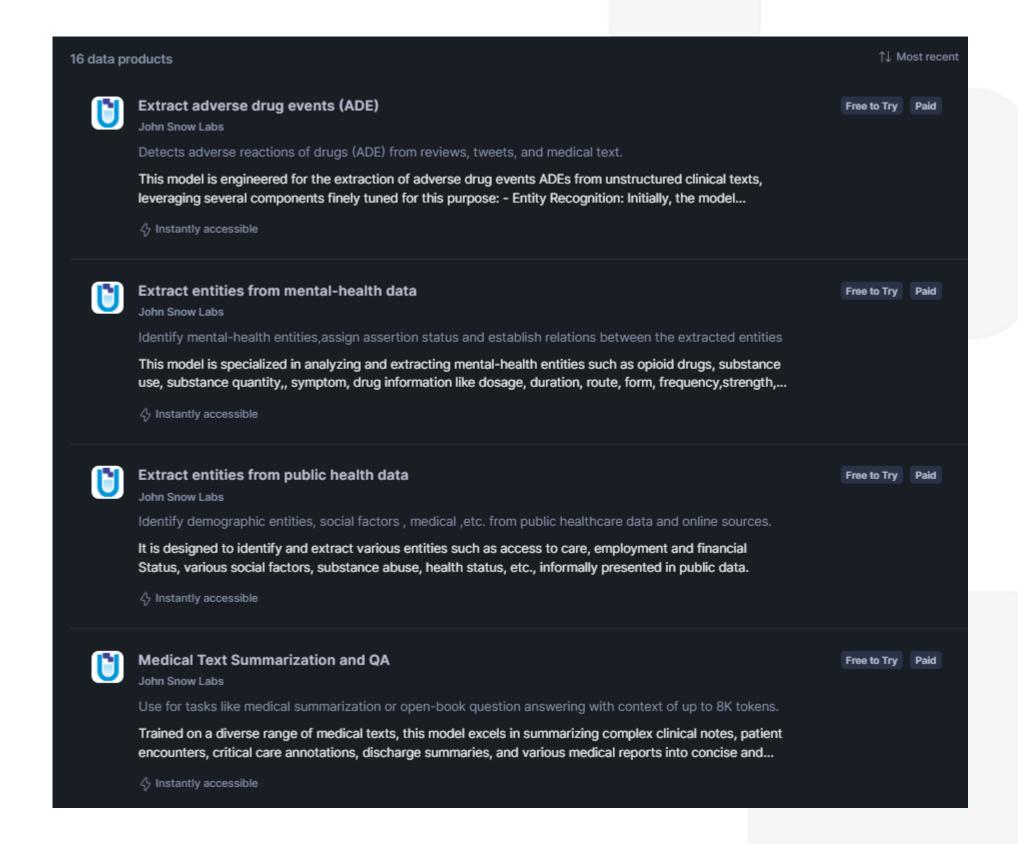
- 29 Endpoints available & counting
 - Medical LLMs
 - Medical Text Summarization & QA LLM
 - Medical Speech to Text
 - Medical Translation
 - De-identification (8 Languages)
 - Entity, Relation & Assertion Detection
 - Clinical, Oncology, Radiology, ADE, VOTP, etc.
 - Accuracy & throughput metrics
- Deployment & Usage Instructions



Deployment Options – Private API Endpoints



- 16 Endpoints available & counting
 - Medical Text Summarization & QA
 - De-identification (8 Languages)
 - Entity, Relation & Assertion Detection
 - Clinical, Oncology, Radiology, ADE, VOTP, etc.
 - Accuracy & throughput metrics
- Deployment & Usage Instructions



Deployment Options - Private API Endpoints

databricks

- 43 Endpoints available & counting
 - De-identification (8 Languages)
 - Entity, Relation & Assertion Detection
 - Clinical, Oncology, Radiology, ADE, VOTP, etc.
 - Entity Resolution SNOMED, HPO, UMLS, RxNorm, LOINC, ICD9, ICD10, etc.
- **Deployment & Usage Instructions**

43 filtered results John Snow Labs Clinical De-identification for Romanian This pipeline can be used to deidentify PHI information from Romanian medical texts.

John Snow Labs Clinical De-identification for Arabic This pipeline can be used to deidentify PHI information from Arabic medical texts.

This pipeline can be used to deidentify PHI information from Portuguese medical texts.

Clinical De-identification for

John Snow Labs

Portuguese

John Snow Labs Clinical De-identification for Spanish This pipeline can be used to obfuscate PHI information from Spanish medical texts.

John Snow Labs Clinical De-identification for German This pipeline can be used to deidentify PHI information from German medical texts.

John Snow Labs Clinical De-identification

This model specializes in masking Personal Health Information (PHI) in English clinical notes. Utilizing cutting-edge

John Snow Labs John Snow Labs Detect Healthcare Professional Consult documents

This model verifies if a provided text represents a consultation with a Healthcare Professional.

SNOMED Codes to ICDO Codes

Translates SNOMED clinical terminology into ICDO (International Classification of Diseases for Oncology) codes.

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John Snow Labs SNOMED Clinical Health Information

This model is designed to map healthcare data to SNOMED codes accurately.

John Snow Labs

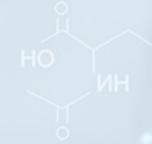
Extract Social Determinants of Health

Medication Coder

John Snow Labs

Extract Clinical Findings and the

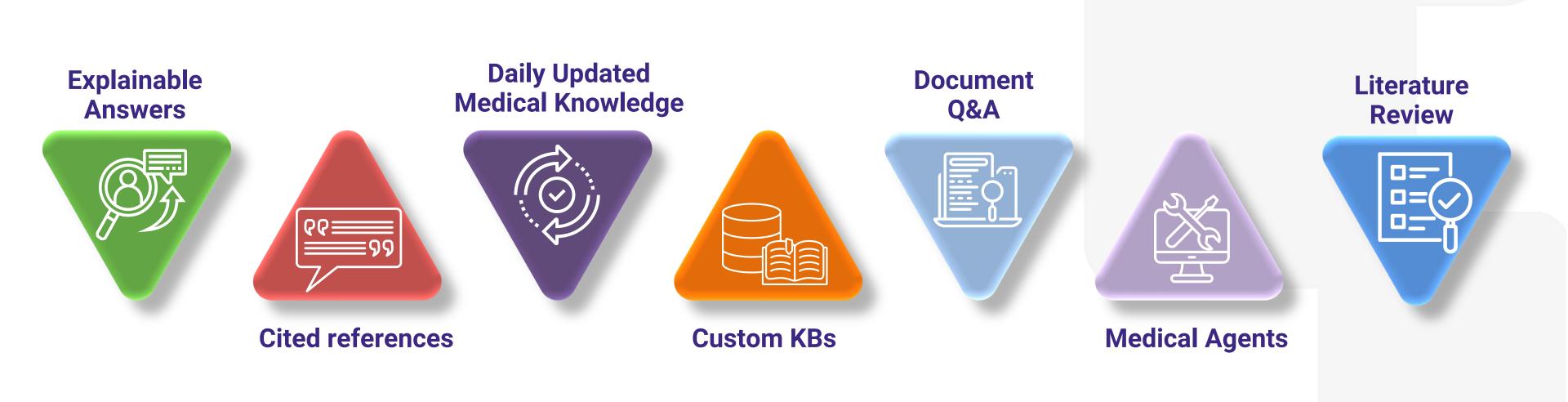




Medical Chatbot

Medical Chatbot

Al Medical Assistant that understands and responds to a wide range of health related queries, from simple questions to complex discussions and provides informative and well-researched responses, while also being able to adapt to different tones, styles, and formats.

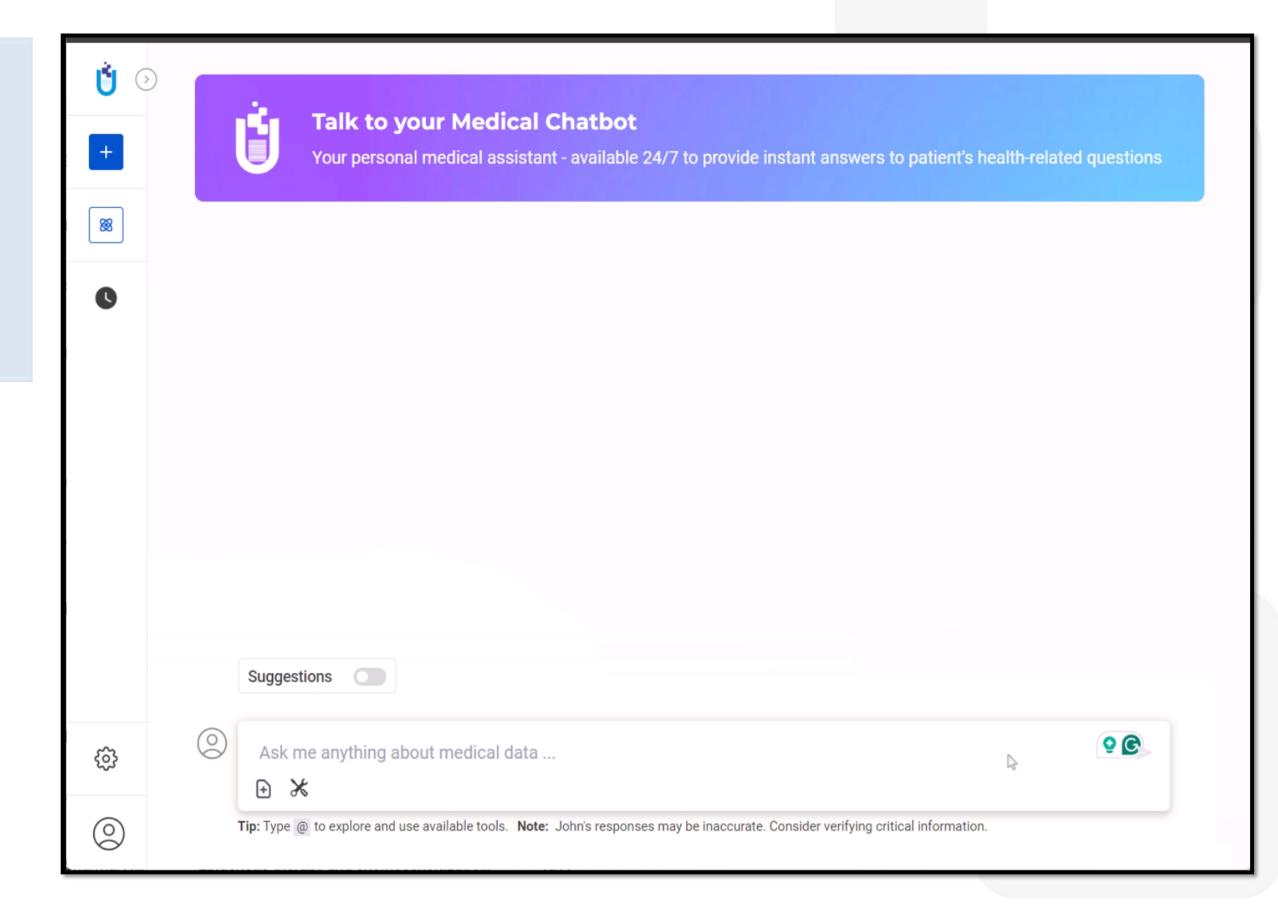


Medical Chatbot

What it is:

- Information Retrieval + Text Generation
- Proprietary Medical Large Language Models
- Daily Updated Context Information
 - Medical Knowledge Bases
 - Custom Knowledge Bases

JSL-MedMX-8B	91.82
Med-PaLM2	84.09
GPT-4	82.97
Llama3-FT-Med	77.71





DEMO

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

Offerings



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



- 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

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



Sign Up

via LinkedIn or using your enterprise email



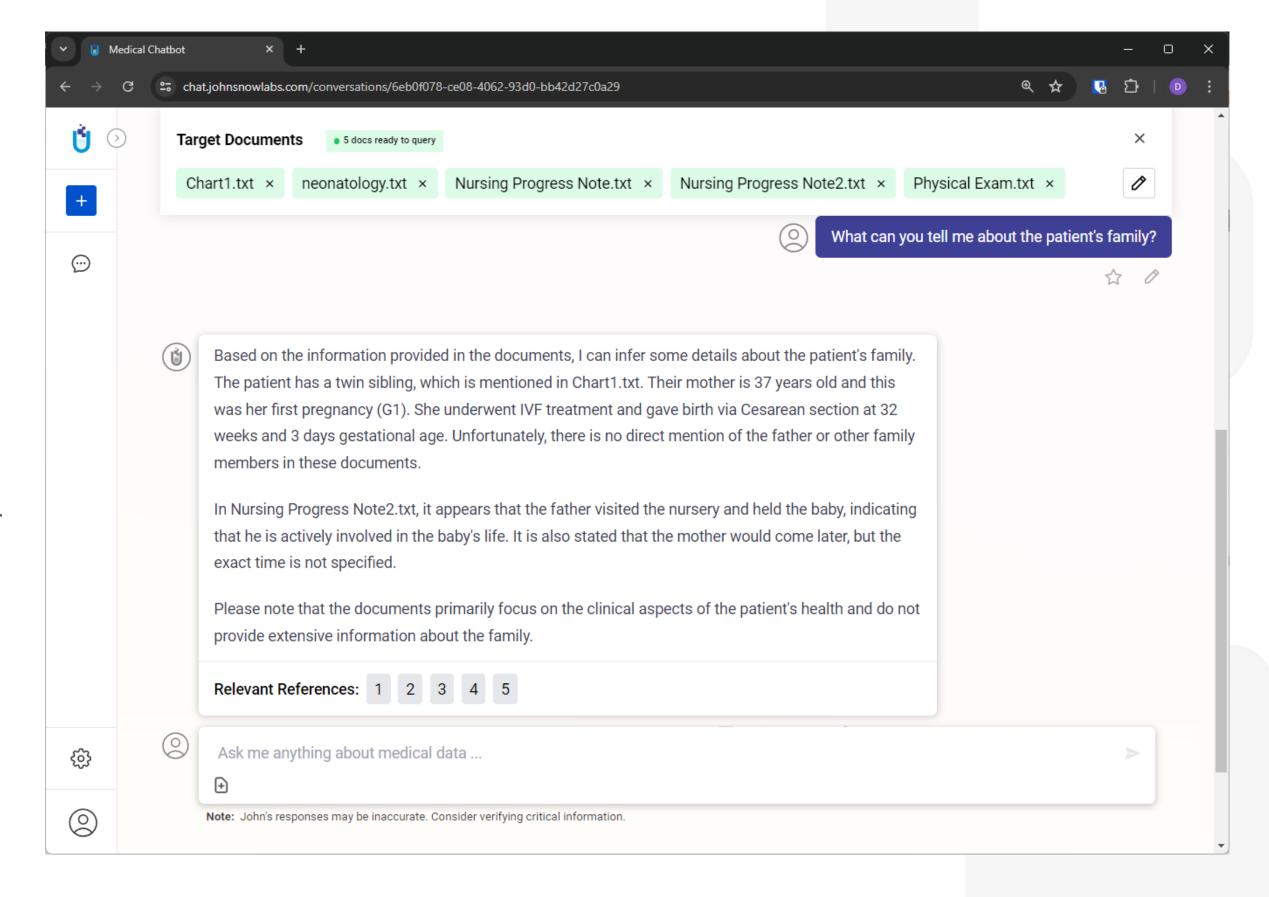
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