



HARISH RAGHAVENDRA R 221801015 <221801015@rajalakshmi.edu.in>

2025 2nd International Conference on Computing and Data Science (ICCDs) : Submission (1916) has been created.

1 message

Microsoft CMT <noreply@msr-cmt.org>
To: 221801015@rajalakshmi.edu.in

Sun, May 11, 2025 at 9:19 PM

Hello,

The following submission has been created.

Track Name: ICCDS2025

Paper ID: 1916

Paper Title: MEDIBOT: An AI-Powered Conversational Platform for Medical Knowledge Retrieval

Abstract:

Access to reliable and timely medical information remains a critical challenge for both healthcare professionals and patients. MEDIBOT is a conversational AI platform designed to bridge this gap through a retrieval-augmented question answering (QA) system. Leveraging LangChain and Hugging Face Transformers, the system processes medical PDFs by chunking and embedding text into a FAISS vector database, allowing for rapid, contextually accurate information retrieval. A fine-tuned LLaMA 2 model powers response generation, ensuring relevance and clarity. MEDIBOT's architecture, implemented using Chainlit for its user interface and CTransformers for large language model interaction, delivers a streamlined experience for users seeking precise medical insights. Developed with a Design Thinking methodology, the platform emphasizes human-centric design, multilingual support, and scalability. This work demonstrates how advanced natural language processing (NLP) techniques can be harnessed to enhance healthcare accessibility, support education, and empower users through intelligent, interactive systems.

Created on: Sun, 11 May 2025 15:49:00 GMT

Last Modified: Sun, 11 May 2025 15:49:00 GMT

Authors:

- 221801015@rajalakshmi.edu.in (Primary)
- 221801004@rajalakshmi.edu.in
- 221801023@rajalakshmi.edu.in

Secondary Subject Areas: Not Entered

Submission Files:

Medibot_paper.pdf (279 Kb, Sun, 11 May 2025 15:48:48 GMT)

Submission Questions Response: Not Entered

Thanks,
CMT team.

To stop receiving conference emails, you can check the 'Do not send me conference email' box from your User Profile.

Microsoft respects your privacy. To learn more, please read our [Privacy Statement](#).

Microsoft Corporation
One [Microsoft Way](#)
[Redmond, WA 98052](#)

