

Neurology Assistant Chatbot for Patient Screening and Reception

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Sponsor (Name, title and affiliation, email)	Dr. Jainendra Shukla(Professor at IIITD, jainendra@iiitd.ac.in)
A bit about the sponsor / its org	He is an associate professor at IIIT Delhi and is also in the process of pitching this project to AIIMS Delhi, so it can streamline the process of junior doctor medical report assessment.
Users of the application	This chatbot is for patients, helping them with screening, reports, and directions. It's also super handy for doctors and staff, making screening faster and easier, especially for people who prefer different languages.
Brief description of the project and key requirements	<p>The objective of this project is to design, develop, and deploy an AI-powered chatbot capable of engaging in speech-based conversations with patients in the neurology department. The chatbot will assist by:</p> <ol style="list-style-type: none">1. Patient Screening: Asking preliminary health-related questions to collect key information about symptoms, history, and concerns before their consultation.2. Report Generation: Preparing a summary report for doctors to streamline patient assessments.3. Reception Assistance: Acting as a virtual receptionist to provide directions, appointment confirmations, and general information about hospital services4. Multilingual Communication: Communicating in the patient's preferred language to ensure inclusivity and ease of interaction for individuals from diverse linguistic backgrounds.
Tech stack	ReactJS/Django,Python,FastAPI,MongoDB