**NATURAL LANGUAGE PROCESSING**

The AI platform significantly enhances patients' experiences with the healthcare system through the use of advanced natural language processing(NLP) and speech recognition algorithms. By analyzing and categorizing voice input data related to symptoms, this tool can determine the likelihood of a patient having a particular illness and will notify you if any abnormalities are detected.. Furthermore, it acts as a medical virtual agent during medical interviews, providing medical assessments, scheduling appointments with doctors, and monitoring and recording the patient's health condition. It is the ultimate game-changer when it comes to patient interaction with the healthcare system. Its impressive robustness, supreme modularity, and unparalleled user-friendliness make navigation a breeze.

Our system efficiently processes both text and voice input data using NLP algorithms. With an intent classifier that's extensively trained to analyze phrases and identify entity keywords within them, the request is classified based on its respective intent. Once classified, our response management component promptly retrieves the appropriate response.

REFERENCE:

Maria V. Vasileiou, Ilias G. Maglogiannis, "The Health ChatBots in Telemedicine: Intelligent Dialog System for Remote Support", *Journal of Healthcare Engineering*, vol. 2022, Article ID 4876512, 12 pages, 2022. https://doi.org/10.1155/2022/4876512