

A Research Paper on the Use of AI in Early Diagnosis of Human Diseases

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Abstract: *Healthify-AI is an advanced AI-driven platform designed to revolutionize healthcare through precise disease prediction and user-centric management. Leveraging state-of-the-art machine learning models, the system predicts the probability of three significant health conditions diabetes, heart disease, and kidney disease based on user-provided health parameters. Built using the Streamlit framework, the platform offers an intuitive and interactive interface, ensuring seamless access to health insights for users of all technical backgrounds. In addition to prediction capabilities, Healthify-AI integrates secure user authentication and a chatbot powered by Hugging Face for personalized health-related inquiries. The system further incorporates location-based functionality utilizing MapTiler and Overpass APIs, enabling users to identify nearby clinics and healthcare providers. Interactive visualization tools are also included to help users better understand their health metrics and risk factors. This comprehensive approach enhances healthcare accessibility, supports early detection, and empowers users with actionable insights to manage their health effectively. By addressing challenges like convenience, personalization, and accessibility in healthcare. Healthify-AI showcases the transformative potential of AI in tackling global health concerns and advancing personalized medicine*

Keywords: AI-powered, disease prediction, healthcare management, Streamlit, MapTiler

