

A Review Paper on the Use of AI in Early Diagnosis and Prognosis of Human Diseases

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Abstract: *The project Advanced AI-driven Solution for Human Diseases Management focuses on diagnosing and managing chronic diseases like diabetes, heart disease, and kidney disease. These diseases can be life-threatening if not diagnosed early, and current systems for disease management often lack efficiency and accuracy. By employing advanced machine learning algorithms such as Logistic Regression, Decision Trees, and Random Forest, the platform offers improved predictive accuracy for these diseases. The system integrates a user-friendly interface, allowing individuals to input their health data, and provides real-time prediction results with automated email notifications and PDF reports. The results of this platform demonstrate an improved diagnostic process, helping users make informed decisions about their health. Index Terms-disease prediction, AI in healthcare, diabetes, heart disease, kidney disease, machine learning, Logistic Regression, Random Forest, health automation, disease management system.*

Keywords: Heart Disease, Diabetes, Kidney disease, Machine learning, Logistic Regression, Decision Trees, Random Forest, Health automation, Disease management system, Predictive accuracy, Real-time prediction