Smart AI – Powered Healthcare System

Mrs. Ishwarya K[1], Praveena P[2], Madhumitha S[3], Parthini B[4], Parmila Sri P[5]
[1, 2, 3, 4, 5] Dept of Information Technology
[1, 2, 3, 4, 5] Sri Shakthi Institute of Engineering and Technology, Coimbatore-641062

Abstract- *This paper presents a Smart AI-Based Healthcare System designed to enhance disease prediction and support clinical decision-making using machine learning techniques. The system analyzes patient data such as symptoms, medical history, and clinical records to identify patterns and predict diseases at an early stage.*

It improves accuracy, reduces processing time, and assists healthcare professionals.

Keywords: Artificial Intelligence, Machine Learning, Disease Prediction, Healthcare Analytics, Clinical Decision Support

I. INTRODUCTION

This system predicts diseases using machine learning by analyzing patient data.

It improves diagnosis accuracy and reduces time.

II. IDENTIFY, RESEARCH AND COLLECT IDEA

AI techniques like Decision Tree, SVM, and Naïve Bayes are used for prediction.

The system focuses on simplicity and efficiency.

III. METHODOLOGY

Data collection, preprocessing, feature selection, model training, and prediction.

IV. EXISTING SYSTEM

Traditional systems rely on manual diagnosis which is time-consuming and error-prone.

V. PROPOSED SYSTEM

Uses machine learning for fast and accurate prediction with a user-friendly interface.

VI. CONCLUSION

The system improves healthcare efficiency and reduces human errors.