VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI

A PROJECT REPORT ON

"VIRTUAL DOCTOR CHATBOT USING MACHINE LEARNING"

Submitted in partial fulfillment for the award of degree of,

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

By

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CERTIFICATE

This is to certify that the project entitled "VIRTUAL DOCTOR CHATBOT USING MACHINE LEARNING" has been successfully completed by

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the bonafide students of **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023–2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

In the current landscape, our developed virtual chatbot system seeks to optimize resource utilization by creating a web application that facilitates direct interaction with available doctors while seamlessly integrating machine learning-driven chatbots for continuous support. This innovative solution addresses existing limitations in other platforms by combining live chat functionalities with regularly updated machine learning datasets. Through advanced natural language processing (NLP), it provides users with a unified and efficient platform for seamless human-computer interaction, adapting to various situations to ensure reliable assistance regardless of external circumstances. At the heart of our system lies the integration of decision tree and Naive Bayes algorithms for disease prediction. By harnessing the power of these machine learning models, we empower our platform to analyze user input, identify symptoms, and predict potential diseases with remarkable accuracy. One of the key strengths of our system is its utility in emergency situations. By providing users with instant access to medical professionals and leveraging AI-driven chatbots for initial assessments, we enable swift and informed decision-making, potentially saving lives in critical moments. Whether it's a sudden onset of symptoms or a pressing medical concern, our platform offers a lifeline, delivering timely assistance and guidance when it matters most.