DIAGNOSIS OF ACUTE DISEASES IN VILLAGES AND SMALLER TOWNS USING AI

A PROJECT REPORT

Submitted by,

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Under the guidance of,

Dr. Serin V Simpson

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

At

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

PRESIDENCY UNIVERSITY

BENGALURU

DECEMBER 2024

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE ENGINEERING

CERTIFICATE

This is to certify that the Project report **"Diagnosis of acute diseases in villages and smaller towns using AI"** being submitted by **Suprith M, Prajwal J, Rahul M, Kiran Kumar L N, Subbireddy K** bearing roll number **20211CSE0596, 20211CSE0603, 20211CSE0613, 20211CSE0617, 20211CSE0620** in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.

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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **"Diagnosis of acute diseases in villages and smaller towns using AI"** in partial fulfillment for the award of Degree of **Bachelor of Technology** in **Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Dr. Serin V Simpson, Assistant Professor, School of Computer Science Engineering & Information Science, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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ABSTRACT

The project, "**Diagnosis of Acute Diseases in Villages and Smaller Towns Using AI,**" uses artificial intelligence (AI) to fill important healthcare gaps in underprivileged areas. Serious problems might result from acute diseases that go undetected because rural communities have limited access to medical experts and infrastructure. With a voice-activated, multilingual interface, this project offers a novel AI-driven diagnostic platform that is accessible through mobile devices and prioritizes inclusivity.

The technology combines natural language processing (NLP) and machine learning (ML) to analyze symptoms in real time and detect illnesses like infections, headaches, and the flu. The platform, which was created for populations with low levels of digital literacy, guarantees accessible even in environments with minimal resources. In accordance with laws like GDPR and HIPAA, the development process is guided by ethical issues like data privacy and inclusion.

By providing patients with prompt diagnostic assistance, the anticipated results include enhanced healthcare accessibility, data-driven public health insights, and lessened demand on the medical infrastructure. This initiative aims to transform healthcare delivery in rural areas by providing a scalable, flexible, and moral solution to close the healthcare gap.

ACKNOWLEDGEMENT

First of all, we indebted to the **GOD ALMIGHTY** for giving me an opportunity to excel in our efforts to complete this project on time.

We express our sincere thanks to our respected dean **Dr. Md. Sameeruddin Khan**, Pro-VC, School of Engineering and Dean, School of Computer Science Engineering & Information Science, Presidency University for getting us permission to undergo the project.

We express our heartfelt gratitude to our beloved Associate Deans **Dr. Shakkeera L and Dr. Mydhili Nair,** School of Computer Science Engineering & Information Science, Presidency University, and **Dr. Asif Mohamed H B**, Head of the Department, School of Computer Science Engineering & Information Science, Presidency University, for rendering timely help in completing this project successfully.

We are greatly indebted to our guide **Dr. Serin V Simpson, Assistant Professor** and Reviewer **Dr. Venkataravana Nayak, Assistant Professor**, School of Computer Science Engineering & Information Science, Presidency University for his inspirational guidance, and valuable suggestions and for providing us a chance to express our technical capabilities in every respect for the completion of the project work.

We would like to convey our gratitude and heartfelt thanks to the PIP2001 Capstone Project Coordinators **Dr. Sampath A K, Dr. Abdul Khadar A and Mr. Md Zia Ur Rahman,** department Project Coordinators **Mr. Amarnath J L and Dr. Jayanthi K** and Git hub coordinator **Mr. Muthuraj.**

We thank our family and friends for the strong support and inspiration they have provided us in bringing out this project.

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