REAL TIME MAPPING OF EPIDEMIC SPREAD

A PROJECT REPORT

Submitted by,

FAIZEEN SHEZAN -20211CSE0713
AAKIF MOHAMED NADEEM -20211CSE0835
MRINAL RAJ -20211CSE0333
SADIYA MOHAMMEDI -20211CSE0218

Under the guidance of,

Ms. ALINA RAHEEN

in partial fulfillment for the award of the

degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

At

PRESIDENCY UNIVERSITY

BENGALURU

JANUARY 2025

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE ENGINEERING & INFORMATION SCIENCE

CERTIFICATE

This is to certify that the Project report **"REAL TIME MAPPING OF EPIDEMIC SPREAD"** being submitted by "Faizeen Shezan, Aakif Mohamed Nadeem, Mrinal Raj, Sadiya Mohammedi" bearing roll number(s) "20211CSE0713, 20211CSE0835, 20211CSE0333,20211CSE0218" in partial fulfilment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering is a Bonafide work carried out under my supervision.

Alina Raheen

Ms. ALINA RAHEEN
Assistant Professor
School of CSE&IS
Presidency University

15/1/25

Dr. Asif Mohammed
Associate Professor & HoD
School of CSE&IS
Presidency University

Dr. L. SHAKKEERA
Associate Dean
School of CSE
Presidency University

Dr. MYDHILI NAIR
Associate Dean
School of CSE
Presidency University

Dr. SAMEERUDDIN KHAN
Pro-VC School of Engineering
Dean -School of CSE&IS
Presidency University

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **REAL TIME MAPPING OF EPIDEMIC SPREAD** in partial fulfilment 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 **Ms. Alina Raheen, Assistant Professor, School of Computer Science Engineering, Presidency University, Bengaluru.**

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

NAME	Roll. No	Signature
Faizeen Shezan	20211CSE0713	
Aakif Mohamed Nadeem	20211CSE0835	
Mrinal Raj	20211CSE0333	
Sadiya Mohammedi	20211CSE0218	

ABSTRACT

When faced with new spates of diseases, the need for constant monitoring and dissemination of updated information has become more paramount than ever. There is the plan to come up with a solution to housing all information about a disease when an outbreak happens. The solution does not just contain proactive approach but also an emergency centre that would be very useful in monitoring the outbreak. The objective is to develop an epidemic tracking portal offering real-time updates and valuable insights into the spread and scope of the pandemic by collecting data from various sources. The portal has no problems like the traditional system, which is generally very slow with data collection and limited in scope, the portal with a Web-based approach commits itself to timely collect and keep data from people from different walks of life, including people on social media, official news agencies, and even regular people who might have something to report. The solution analyses realities that real-time big data can be less reliable on information validity to state-of-the-art systems and suggests strong validation and verification. With features to enhance the accuracy of data obtained from the portal, the realness, and usefulness of the portal will remain top-notch, safeguarding people against malpractice and misinformation. In order to attract users from all age groups and backgrounds to know and use the system, a proper design for both the portal and various components will be used. Simplicity in navigation, clarity of information, and ease in understanding and using the system will allow every person to participate directly in making changes in public health. As of today, there are many individual users connected to the Internet and information is always there on time to notice that the first step to the desired future should be done today. In essence, an integrated dashboard will provide continuous data updating and facilitate the development and use of updated models. The predictive analytics when used in a combination of the real-time CFP data will increase the accuracy of predictions regarding the pandemic, ensuring that the proper responses are taken and resources allocated. Aside from this, along with the provision of real-time data and predicting, the proposed portal promises to have the maximum possible flexibility and adaptation to the needs arising from different kinds of pandemics or health problems. Still, this system will be more than just a data source and will provide actual information that can be seen in a visual manner by displaying maps that show the situation in real-time using geographical information. Through this, by being ready to face and challenge health threats, people across the globe will be empowered together with health practitioners.