## // Title of your project //

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**Submitted to the Department of CSE-Data Science**

**in partial fulfilment of the requirements**

**for the degree of**

**Bachelor of Technology**

**in**

**CSE-Data Science**

****

**ABES Engineering College, Ghaziabad**

**Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh Lucknow**

**May, 2024**

## DECLARATION

*We hereby declare that this submission is our own work that, to the best of our knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.*

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## CERTIFICATE

This is to certify that the project report entitled “**XXXXXXXXXXXXXXXXXXX”** which is submitted by **Neha Gangwar, Neha Srivastava, Smriti Singh, and Shweta Teotia** in partial fulfilment of the requirement for the award of degree B.Tech. in the Department of Computer Science and Engineering-Data Science of Dr. A.P.J. Abdul Kalam, Technical University, is a record of the candidates’ work carried out by them under my supervision. The matter embodied in this thesis is original and has not been submitted for the award of any other degree.

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## ACKNOWLEDGEMENT

*It gives us a great sense of pleasure to present the report of the B.Tech. Project undertaken during B.Tech Final Year. We owe special debt of gratitude to* ***Guide Designation & Name*** *Department of Computer Science & Engineering- Data Science, ABES Engineering College, Ghaziabad for his constant support and guidance throughout the course of our work. His sincerity, thoroughness and perseverance have been a constant source of inspiration for us. It is only his cognizant efforts that our endeavours have seen light of the day.*

*We also take the opportunity to acknowledge the contribution of* ***Mr. Prabhat Singh,*** *Head of Department of Computer Science & Engineering- Data Science, ABES Engineering College, Ghaziabad for his full support and assistance during the development of the project.*

*We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind assistance and cooperation during the development of our project. Last but not the least, we acknowledge our friends for their contribution in the completion of the project.*

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## ABSTRACT

*This project report presents the development and implementation of an advanced healthcare monitoring system utilizing the Django framework. The system was developed to assist individuals who were unable to contact doctors during the COVID-19 period for non-COVID diseases. It supports secure user registration and authentication, providing tailored access for both patients and doctors. Key functionalities include comprehensive health metrics, patient profile management, and disease diagnostics using machine learning algorithms. Our healthcare solution integrates sophisticated models such as Random Forest, Naïve Bayes, K-Nearest Neighbour, Convolutional Neural Networks, and Generative Adversarial Networks to analyse physiological and behavioural data, enabling accurate health risk predictions and mental health assessments. A notable feature of the system is its ability to predict diseases through the patient dashboard and subsequently recommend appropriate drugs based on the diagnosed condition. Doctors can also set appointments if needed or upon patient request. This project emphasizes robust security and verification processes, ensuring only authorized medical professionals can access sensitive data. By leveraging advanced technologies and providing personalized health insights and alerts, this healthcare monitoring system empowers users to proactively manage their health and well-being.*

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