

A Major Project Report  
on  
**“COVID 19 CLASSIFICATION USING CHEST X-RAY  
IMAGES”**

*Submitted in partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**  
**in**  
**COMPUTER SCIENCE AND ENGINEERING**

**By**

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under the guidance of

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**Assistant Professor**



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**BVRIT HYDERABAD College of Engineering for Women**  
(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)  
**Accredited by NBA and NAAC with A Grade**  
**Bachupally, Hyderabad – 500090**  
**2020-21**

**DECLARATION**

We hereby declare that the work described in this report, entitled **“COVID 19 CLASSIFICATION USING CHEST X-RAY IMAGES”** which is being submitted by us in partial fulfillment for the award of the degree of **Bachelor of Technology** in the department of **Computer Science and Engineering** at **BVRIT HYDERABAD College of Engineering for Women**, affiliated to **Jawaharlal Nehru Technological University Hyderabad**, Kukatpally, Hyderabad – 500085 is the result of original work carried out by us under the guidance of **Ms. P. Kavitha**.

This work has not been submitted for any Degree/Diploma of this or any other institute/university to the best of our knowledge and belief.

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## **Certificate**

This is to certify that the major/mini project report, entitled “**COVID19 CLASSIFICATION USING CHEST X-RAY IMAGES**” is a record of bonafide work carried out by **P.Meghana(17WH1A0504), J.Amulya Sai(17WH1A0517), B. Udaya Sree(17WH1A0520)** in partial fulfillment for the award of the degree of **Bachelor of Technology** in the department of **Computer Science and Engineering** at **BVRIT HYDERABAD College of Engineering for Women**, affiliated to **Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad – 500085**.

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## **ABSTRACT**

Across the globe as of 22 May 2021 more than 16crores people are infected by Coronavirus disease 2019 or (COVID-19) .World Health Organization has declared it as a global pandemic.More than 34lakhs people have lost their lives .One of the main reason for people's death is lack of fast testing mechanism.In many places the current existing covid test takes around 48 hours to get the results.And also some under developed countries are not in situation to purchase laboratory kits for testing.This are one of the main reasons for rapid increase in the cases which lead to a dreadful situation.A new rapid testing method would benefit both patients and doctors.So we propose a method which gives us the results instantly by taking the chest x-ray images as input.

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