



MALLA REDDY UNIVERSITY

(As per Telangana State Private Universities Act No.11 of 2018 and G.O.Ms.No.14, Higher Education (UE) Department)

III Year AD Project Registration Form

Name of the Guide: Prof. R.KARTHIK

Year: III Year-II Sem

Title of the Project: Automated COPD Detection with CNNs in CT Scans

Abstract:

This study presents an automated approach for early detection of Chronic Obstructive Pulmonary Disease (COPD) using Convolutional Neural Networks (CNNs) on Computed Tomography (CT) scans. The methodology involves preprocessing CT images to enhance features, followed by a CNN trained to recognize patterns indicative of these respiratory conditions. Performance evaluation using sensitivity, specificity, and accuracy metrics on diverse patient datasets demonstrates the model's effectiveness. Robustness testing across different imaging devices and acquisition protocols further validates its reliability. The CNN-based approach proves successful in accurately identifying COPD, offering a promising tool for early disease detection. The proposed system has the potential to enhance diagnostic efficiency, reduce reliance on manual interpretation, and contribute to advancements in personalized treatment strategies for respiratory diseases.

Student Batch Details :

Student Name	Roll Number	Section Details
U.NIKHIL	2111CS020314	Delta
B. NIKITHA	2111CS020318	Delta
K. NITHYA SREE	2111CS020326	Delta
B. POOJITHA	2111CS020342	Delta
K. PRAVALLIKA	2111CS020359	Delta

Guide Sign

Project Coordinator

HOD- AIML