# VARICOSE VEIN DETECTION USING ML ALGORITHM

ABSTRACT:

c In recent years, computer vision techniques have been used for medical image analysis. In this paper, we propose a novel approach to detect varicose veins using Convolutional Neural Network (CNN) algorithms. The proposed system achieves a high accuracy rate in detecting varicose veins, which can aid in early diagnosis and treatment. The proposed system takes CT / ultrasound images of the affected area as input and produces a binary classification output, indicating whether the image contains varicose veins or not. The proposed CNN architecture consists of multiple convolutional layers, pooling layers, and fully connected layers. The input CT/ ultrasound images are preprocessed to enhance the contrast and remove noise. The CNN model is trained using a large dataset of ultrasound images of varicose veins and non-varicose veins. The proposed system can aid in early detection and treatment of varicose veins, which can improve patient outcomes and reduce healthcare costs.