

PROJECT TITLE
CLOUD APP FOR PNEUMONIA DETECTION
WITH GIVEN X-RAY IMAGES IN DEEP
LEARNING
PROJECT BATCH NO:17

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ABSTRACT:

Pneumonia is a respiratory infection caused by bacteria or viruses; It affects many individuals, especially in developing and underdeveloped nations, where high levels of pollution, unhygienic living conditions, and overcrowding are relatively common, together with inadequate medical infrastructure. Pneumonia causes pleural effusion, a condition in which fluids fill the lung, causing respiratory difficulty. Early diagnosis of pneumonia is crucial to ensure curative treatment and increase survival rates. Chest X-ray imaging is the most frequently used method for diagnosing pneumonia. However, the examination of chest X-rays is a challenging task and is prone to subjective variability. In this study, we developed a computer-aided diagnosis system for automatic pneumonia detection using chest X-ray images. We develop a deep learning approach to detect pneumonia disease detection using 3 neural network algorithms CNN with vgg16, CNN with resnet50, U net. We create a Real Time Application Pneumonia Prediction Web App using Python – Flask Framework, Deployed in Heroku Cloud Application platform.