

## **ABSTRACT**

### **Pneumonia Detection using Deep Learning**

The coronavirus is a deadly virus that has claimed hundreds of thousands of lives in countries around the world. Older adults and people who have severe underlying medical conditions or prior cases of pneumonia seem to be at higher risk for developing more serious complications from the virus. With rising deaths and limited medical resources, doctors and medical professionals around the world are working around the clock to treat patients and prevent the spread of the virus. Severe forms of the virus can cause pneumonia leading to greater risk of death.

With the growing technological advancement, we have in this day and age, it is possible to use tools based on deep learning frameworks to detect pneumonia based on chest x-ray images. The challenge here would be to aid the diagnosis process which allows for expedited treatment and better clinical outcomes. It is crucial to have quick and accurate detection of pneumonia so patients can receive treatment in a timely manner especially in impoverished regions.

Submitted by: Megha.C

MCA, S3

TVE20MCA-2039