Name: Jincy P Janardhanan
Reg.No: IEAREIT017
Name: Alka Bhagavaldas K
Reg.No: IEAREIT007
Name: Aleena Sunny
Reg.No: IEAREIT006
Name: Ameena Shirin
Reg.No: IEAREIT009
Name: Fathima
Reg.No: IEAREIT013

Topic: A lightweight deep learning model for classifying different types of pneumonia

Area: Convolutional Neural Networks, Spatial Pyramid Pooling

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ABSTRACT

A fast screening method using existing tools such as x-ray and computerized tomography scans can help alleviate the burden of mass diagnosis tests. A chest x-ray is one of the best modalities in diagnosing a pneumonia symptom. A lightweight model is important, as such it allows the model to be deployed on various platforms that include mobile phones, tablets, and normal computers without worrying about the memory storage capacity. The proposed model is based on 14 layers of convolutional neural network with a modified spatial pyramid pooling module. The multiscale ability of the proposed network allows it to identify pneumonia of different types for various severity levels.

References:

1. Siti Raihanah Abdani, Mohd Asyraf Zulkifley, Nuraisyah Hani Zulkifley; A Lightweight Deep Learning Model for COVID-19 Detection; 2020 IEEE Symposium on Industrial Electronics & Applications (ISIEA), 2020

COMMENTS FROM COORDINATOR:

COMMENTS FROM GUIDE:

Sd/-

Princy N K