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**ABSTRACT**

A pneumothorax (noo-moe-THOR-aks) is a collapsed lung. A pneumothorax occurs when air leaks into the space between your lung and chest wall. This air pushes on the outside of your lung and makes it collapse. A pneumothorax can be a complete lung collapse or a collapse of only a portion of the lung. A collapsed lung occurs when air enters the pleural space, the area between the chest wall and the lung. Air in the pleural space can build up and press against the lung, causing it to collapse partially or fully. Also called a deflated lung or pneumothorax, a collapsed lung needs immediate medical care.

The proposed system is based on CNN using images to classifying, pneumothorax or Normal in this system using CNN model. It is predicted that the success of the obtained results will increase if the CNN method is supported by adding extra feature extraction methods and classify successfully pneumothorax. We have demonstrated the efficacy and potential of using deep CNN to images.

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**LIST OF ABBREVIATIONS**

CNN - Convolutional Neural Network

FC - Fully Connected Layer

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