

Graduation Project - English Abstract

Project Code:	AI01
Project Title (in English):	Pneumonia diagnosis system
Project Title (in Arabic):	نظام تشخيص الالتهاب الرئوي
Scientific Department:	AI
Supervisor(s):	Dr. Ibrahim Zaghloul
Project Team:	1-Sherif Ashraf Ahmed Rushdy 2-Abdelrahman Mohamed Khalil Afkar 3-Sobeh Salah Sobeh 4-Yahia Zakaria Ibrahim 5- Mohamed Hosny Mossad 6-Abdelkhalek Ashraf Shams 7-Abdullah Ibrahim Wahuman 8- Aya Adel Mohamed Saber

Project Abstract

Pneumonia is a common disease which occurs in the lungs caused by a bacterial infection. Early diagnosis is an important factor in terms of the successful treatment process.

In recent years, artificial intelligence (AI) and deep learning techniques have shown great promise in accurately diagnosing and classifying different types of pneumonia.

In this project, we propose a medical diagnosis system that utilizes deep learning algorithms to classify whether or not a patient has pneumonia and identify the type of pneumonia. It will use a state-of-the-art deep learning algorithms to analyze chest X-ray images and extract relevant features for accurate classification.

The system will be trained on a large dataset of chest X-ray images that have been labeled by experts. The dataset will include a diverse range of X-ray images (normal, pneumonia, and COVID-19).

The system will be designed to be accessible through a website that can be utilized by both doctors and patients. The website we propose will have a simple user interface that is easy to navigate, providing an excellent user experience.