Image Progressing and ML for medical diagnosis of COVID-19

Abstract:

Medical industry has created a huge room for image analysis processes like image segmentation, analysis, clustering. Extensive growth of image data has complex modalities, large variations and several parameters that needs a medical expert to interpret the subject and diagnose the medical issues deeply. So machine learning has become the first step in automating the process of diagnosis and therefore decreasing human intervention in the process of diagnosis and thereby increasing the number of diagnosed patients.

Due to covid crisis there is a huge shortage of doctors which is creating latency for the diagnosis of the covid19, in these situations machine learning can play a crucial role. So we will be using these powerful machine learning techniques for the detection of Covid-19 using Computed tomography scans (CT scans).Even though Xray can be used for detection of covid19 Ct scans are used because of their power of providing even more detailed images. Finally, this machine learning model is going to be trained on CT scan images can diagnose covid19 using and decrease human intervention to some extent.

Dataset Link:

1) https://www.kaggle.com/luisblanche/covidct

2) https://www.kaggle.com/plameneduardo/sarscov2-ctscan-dataset

Team Mates:

Sno	**Name**	**Roll number**	***Role***
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