Wheat Diseases Detection

**Introduction:**

Wheat is essentional part of some countries import export and yearly much wheat is prone to different disease which results in loss to farmer. So our goal is to detect defected diseases so we can stop it in early age.

**Dataset:**

The Dataset contain images of wheat. There are two types of wheat images in dataset, one is healthy wheat with no disease and other wheat contains disease.

**Technique:**

First we load positive and negative images separately and store their path into dataframe and assign them label. We assign 0 to affected images and 1 to healthy images.

The images were in different dimensions so we resize all the images into 277\*277. We apply different pre-processing techniques after that we convert the images into numpy array and sent it to our neural network . We train on almost 10 epochs which provide us almost 81% accuracy