

LEVERAGING ARTIFICIAL INTELLIGENCE IN CROP DISEASE DIAGNOSIS AMIDST THE COVID 19 PANDEMIC.

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With the emergence of the a covid 19 pandemic, the agricultural sector which contributes to the biggest percentage of the country's GDP was greatly affected to restrictions in movement and other challenges that were not foreseen. There was a great increase in crop disease infections because agricultural specialists were not allowed to move. We decided to come up with crop disease diagnosis applications that gives instant results and right diagnostic for the different crop diseases.

YieldUp is a mobile application built on Deep Learning techniques to detect the presence of crop diseases through mapping of features as seen on crop leaves.

Success has been achieved in beans and cassava leaves which gives us now a chance to explore the integration of algorithms for crop diseases. We also provided a web application from which reference codes from the mobile device are entered and farmers can know more about the crop disease and diagnostics for a particular crop disease. The web application also connects farmers from different areas of specialization which we believe will improve communication and solve various agricultural challenges



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