



Plant Disease Detection And Diagnosis Using Deep Learning

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About The Project

Identification of the plant diseases is the key to preventing the losses in the yield and quantity of the agricultural product. The studies of the plant diseases mean the studies of visually observable patterns seen on the plant. Health monitoring and disease detection on plant is very critical for Sustainable agriculture. It is very difficult to monitor the plant diseases Manually. It requires tremendous amount of work, expertize in the plant diseases, and also require the excessive processing time. Hence, Deep Learning techniques are used for the detection of plant diseases. Disease detection involves the steps like image acquisition, image Pre-processing, Image segmentation, feature extraction and classification.

Project Objective

1. Development of system for identification of plant disease using deep learning techniques.
2. After identifying the disease suggest the pesticide to use and prevention methods.

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Apple scab

A serious disease of apples and ornamental crabapples, apple scab (*Venturia inaequalis*) attacks both leaves and fruit. The fungal disease forms pale yellow or olive-green spots on the upper surface of leaves. Dark, velvety spots may appear on the lower surface. Severely infected leaves become twisted and puckered and may drop early in the summer. Symptoms on fruit are similar to those found on leaves. Scabby spots are sunken and tan and may have velvety spores in the center. As these spots mature, they become larger and turn brown and corky.

The developed system can detect disease in plant and also provide the remedy that can be taken against the disease.

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गोविन्द बल्लभ पंत कृषि एवं प्रौद्योगिक विश्वविद्यालय पंतनगर में ड्रोन प्रोटेक्शन सिस्टम फॉर हिल फार्म (डी0पी0एस0 - एच0 एफ0) प्रयोजना के अंतर्गत ड्रोन की टेस्टिंग करते हुए प्रमुख अन्वेषक एवं सह मुख्य अन्वेषक ।

ड्रोन के द्वारा कंप्यूटर इंजीनियरिंग विभाग में कृषि के क्षेत्र में निम्न थीसिस/ शोध कार्य किये गए है :

1. कार्य का विवरण: ड्रोन द्वारा खेतों की मेड़ों को पहचानना एवं खेतों के अंदर फसलों की उत्पादता एवं विकास को पहचानना

छात्र का नाम: दिनेश बाफिला, एम0टेक0 प्रोग्राम, कंप्यूटर इंजीनियरिंग विभाग

एडवाइजर का नाम: डॉ0 राजीव सिंह, सह प्राध्यापक, कंप्यूटर इंजीनियरिंग विभाग

2. कार्य का विवरण: ड्रोन के द्वारा फसलों में बीमारियों का पता लगाना

छात्रा का नाम: कुमारी नेहा, एम0टेक0 प्रोग्राम, कंप्यूटर इंजीनियरिंग विभाग

एडवाइजर का नाम: डॉ0 राजीव सिंह, सह प्राध्यापक, कंप्यूटर इंजीनियरिंग विभाग