



**INFORMATICS
INSTITUTE OF
TECHNOLOGY**

INFORMATICS INSTITUTE OF TECHNOLOGY

In Collaboration with

UNIVERSITY OF WESTMINSTER

**Prediction of Black Spot Disease (Bacterial Canker) of Mango
Plant (ANTHRACNOSE)**

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Abstract

This system has designed to predict the blackspot disease in mango plant using mango leaves. Blackspot disease has another name called “**Bacterial canker**”. From this name anyone can guess the harmfulness of this disease. Mainly this is bacteria-based disease so after infecting this disease this plant dies step by step if the farmers could identify this disease before going to fatal step it would be helpful for the farmers and mango plant owners. This disease not only affecting to the leaves but it infecting to the trunk and fruits. In the last stages of this disease trunk dies and water supply stops from the trunk and plant starts to die step by step so this is critical disease if the disease could find from the beginning.

This is very simple application to use any user because user can input the leaf image to the system and click on the predict button. After that user can get the prediction of the uploaded image. ML part has developed with python language and core function is working perfectly. Developer has used around 4000 images to train the model and this system has above 90% of accuracy. This dataset includes healthy and diseased images in this dataset.

If user need to get the prediction from the system user can get one image from one tree, then user can upload it o the system and get the prediction. If this disease is in the last stages of the disease it courses to spread this disease other plats also not only the mango but for every plants.