IMAGE PROCESSING

PLANT DISEASE IDENTIFICATION

In this project we aim to identify the category of foliar disease in the leaves of apple trees. Primarily, we aim to identify whether a leaf belong to healthy, multiple-diseased, scab or rust category, using Image Processing and Machine Learning.

Course Instructor: Dr. Pritee Khanna

Presented By : Aditya Baurai - 2017307 Mukul Mishra - 2017334

Data set acquisition

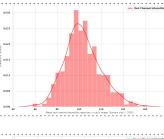
Exploratory Data Analysis

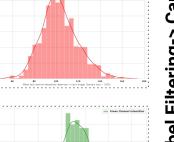


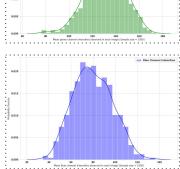
Image Processing













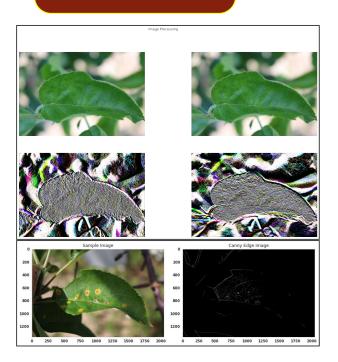


Image Processing II



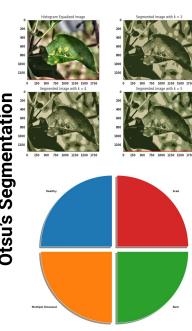
Image
Processing III
&
Dataset prep



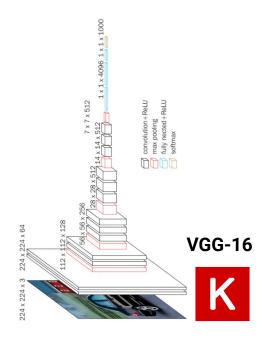
Deep Learning With Keras framework

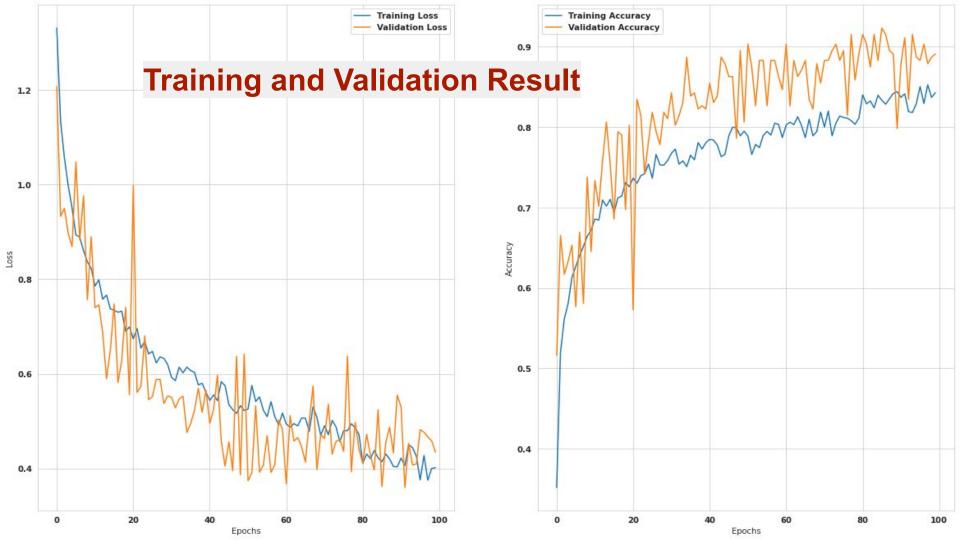
Edge ROI Image

Equalized Image-> Otsu's Segmentation Histogram **ROI Image**



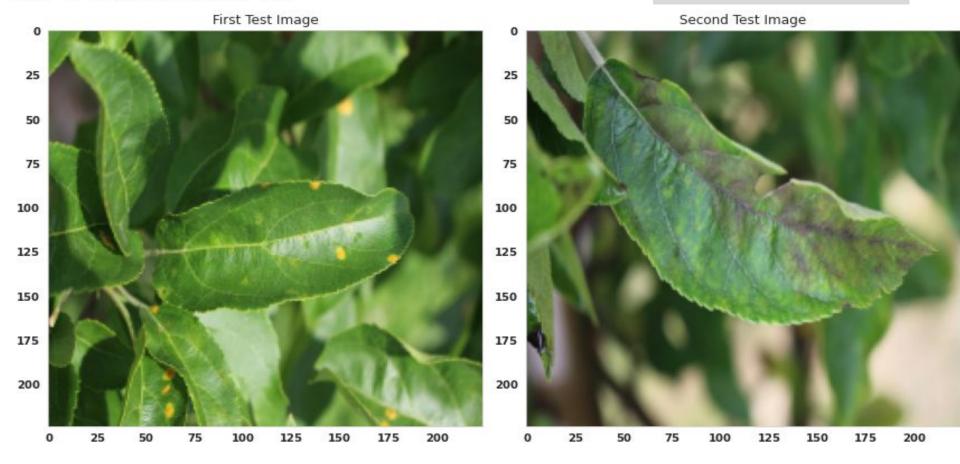
Imbalance earning Model Segmentation Deep handling-> K-means





Label of first testing image Rust Label of first testing image Scab

CLASSIFICATION DONE



Thank You!