FERTILIZERS RECOMMENDATION SYSTEM FOR DISEASE PREDICTION

INTRODUCTION

- Detection and recognition of plant dieses using learning are very efficient providing symptoms of identifying diseases at its earliest.
- Plant pathologists can analyze the digital images using digital image processing for diagnosis of plant diseases.
- Application of computer vision and image processing strategies simply assist formers in all of the regains of agriculture.

MOTIVATION

- Farming is one of the major sectors that influence a country's economic growth.
- In this project, I present a website in which the following applications are implemented: crop recommendation, fertilizer recommendation and leaf disease prediction respectively.

CLASSIFICATION OF PROPOSE

Acquisition

o To get the image of the leaf so that evaluation in the direction of a class can be accomplished.

Preprocessing

 The purpose of the image preprocessing is improving image statistic so that undesired distortions are suppressed and image capabilities which are probably relevant for similar processing are emphasized

Segmentation

- $\circ \quad \textit{Implements guided active contour method}.$
- o Unconstrained active concurs applied to difficult natural image.

Disease Prediction

Leaves are affected by bacteria, fungi, virus and insects

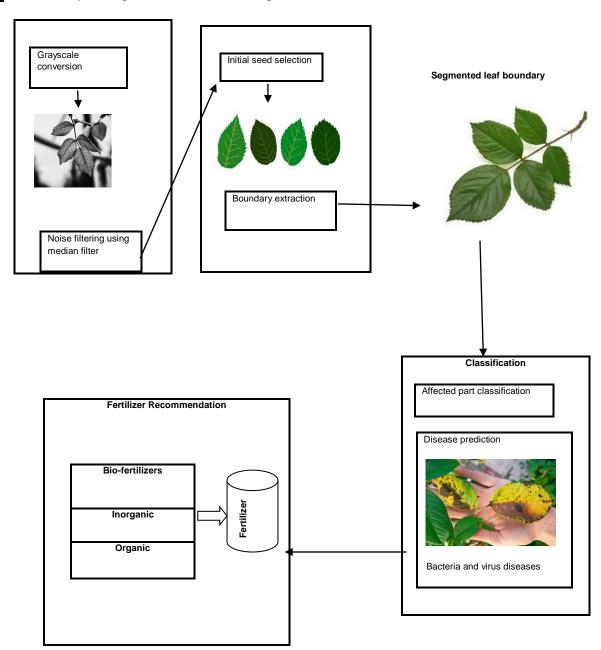
❖ Fertilizer recommendation

o Recommendation the fertilizer for affected leaves based on severity level

Proposed Architecture

Preprocessing

Segmentation



Use case diagram

