



University Grants Commission SERO, Hyderabad

Detection and classification of diseases in Turmeric (*Curcuma Longa*) grown in Coimbatore district using Machine learning

PI: V. Pream Sudha

Co PI: -

Amount Sanctioned: Rs.2.78 Lakhs

Year: 2014 - 16

Project outcomes:

- ✓ The process of disease diagnosis in turmeric plants has been automated
- ✓ Effective feature extraction techniques for leaf disease detection in turmeric plants has been formulated
- ✓ An efficient model that will detect the existence of disease in turmeric plants using machine learning techniques has been developed
- ✓ A model that will classify the disease types as present in turmeric leaves has been developed
- ✓ An interactive system which will classify the diseases on a turmeric leaf with high accuracy of diagnosis has been built

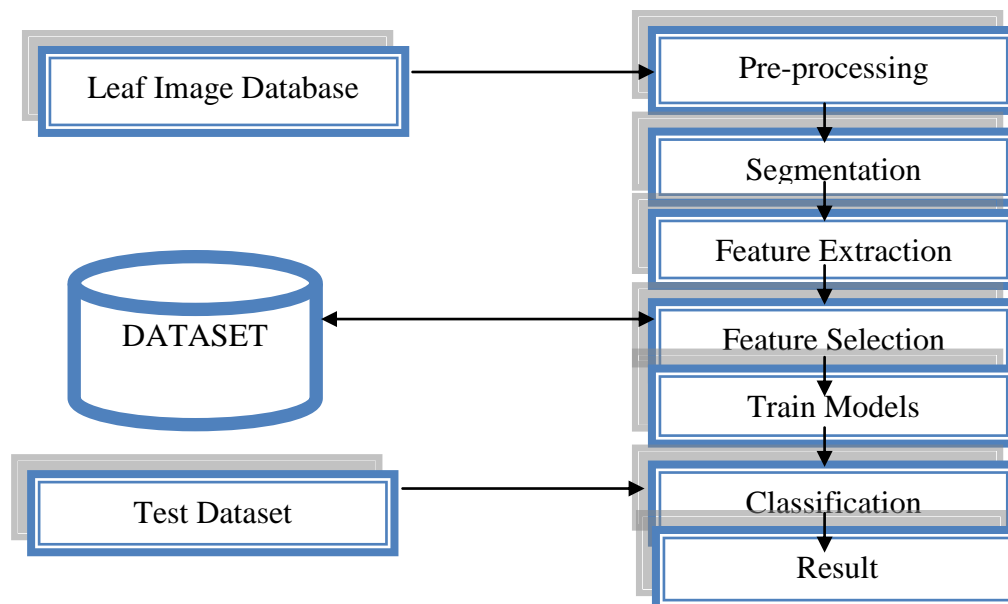


Figure Caption: Model to Detect and classify diseases in Turmeric

❖ **Publications:**

- Identification and Classification of Leaf Diseases in Turmeric Plants, International Journal of Engineering Research and Applications, ISSN: 2248-9622, Vol. 6, Issue 2, February 2016, pp.48-54.
- Feature Selection Techniques for the Classification of Leaf Diseases in Turmeric, International Journal of Computer Trends and Technology, ISSN: 2231-2803, Vol 43, Issue 3, January 2017, pg.138-142

❖ Conference/ Seminar/ Workshop: Nil

❖ Books: Nil

❖ Any other achievements: Nil
