

Plant Leaf Disease Detection using ResNet-50

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Introduction

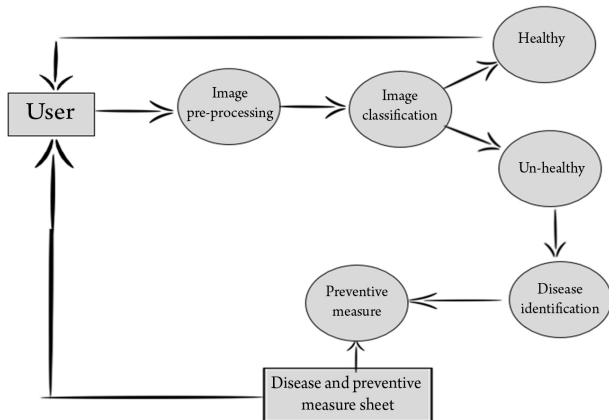
The most related field to the human race is agriculture. Studies from the past indicate that plant leaf diseases are causing a 42% loss in agricultural production. This significant problem can be resolved by early detection of disease

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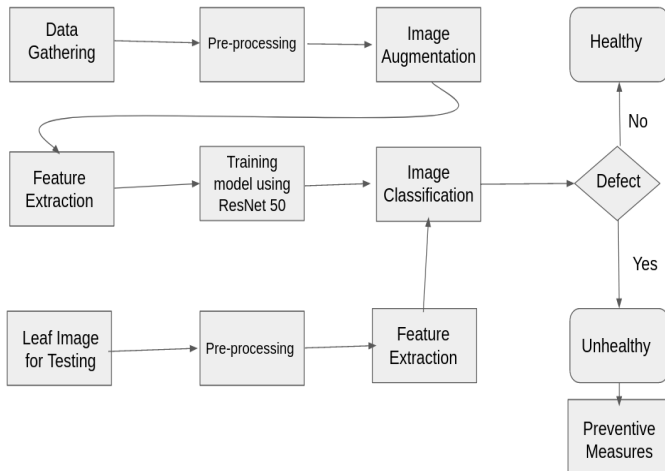
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Using the Convolution Neural Network method and ResNet-50 the system will identify plant leaf disease from the input photos.

Data Flow Diagram



Block Diagram



Input image

The leaf image of paddy and maize is to be taken from Kaggle dataset. The dataset selected for Paddy contains,

- 523 Bown Spot
- 1488 Healthy
- 565 Hispa
- 779 Leaf Blast images

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and maize dataset contains

- 1146 blight
- 1306 common rust
- 574 Grey leaf spot
- 1162 Healthy images

Thank you!