

INFORMATION FOR SMALL FARMERS



OVERVIEW

<u>01</u>

Business Problem

<u>03</u>

Results & Recommendations

<u>02</u>

Data & Model

<u>04</u>

Next Steps

BUSINESS PROBLEM

- Disease
- Crop Loss
- Small Farms

WHAT DATA WAS USED?

- PlantVillage Data
- Healthy & Diseased Plant Images of 14 Crops
- 50,000 Images
- 26 Common Diseases

EXPLORING THE DATA

COLOR



GRAYSCALE



HEALTHY



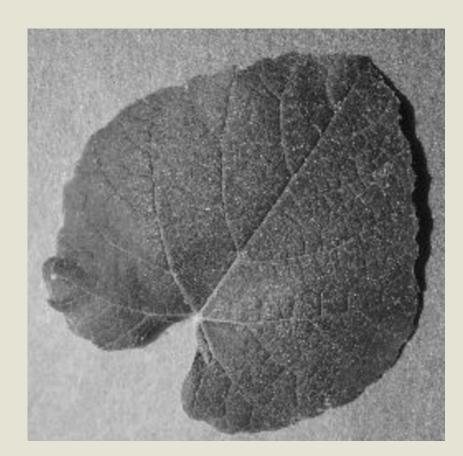
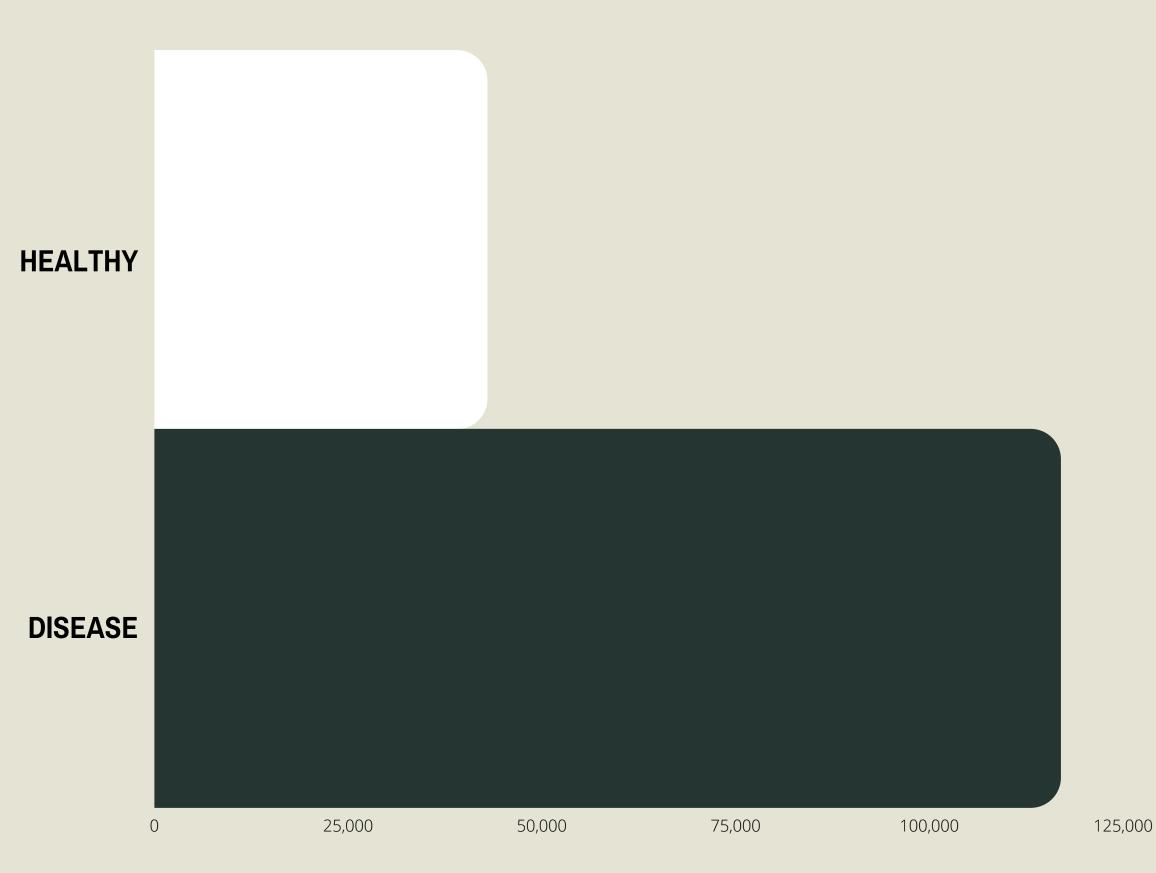


IMAGE COUNTS

EXPLORING THE DATA



MODEL RESULTS

Convolution Neural Network Accuracy: 75%

NEXT STEPS

01DISEASE
TRACKING SYSTEM

02PREVENT
CROP LOSS

O3
SAVE
SMALL FARMS

FUTURE WORK

O1
DIFFERENT
KINDS OF CROPS

O2 CLIMATE DATA O3
APP
DEPLOYMENT

THANK YOU JEN SANS HTTPS://GITHUB.COM/JENSANS/DETECTING-PLANT-DISEASE