

Potato plant classification App



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Presentation flow

- Project goal
- Data
- Process
- Sample prediction
- Demo & Recommendation



Project goal

- To help farmers who grow potatoes



Data

- Data gathered from Kaggle data science competition platform



Process

- EDA
- Data pre-processing
- Build the model
- Evaluate the model
- Sample predictions
- Create an app



EDA

- 3 classes
 - Early_Blight
 - Late_Blight
 - Healthy
- 3 channel (RGB)
- 256 by 256
- 2152 Potato leafs



Early_Blight



Late_Blight



Healthy



Pure green or with having
a spot on a leaf doesn't
represent the healthiness
of the plant.



But most of the pure green leaf's represent healthiness of the plant.

Potato_Late_Blight



Potato_Healthy



Potato_Healthy



Potato_Early_Blight



ML Model

- CNN
- Best model 96% accuracy



Sample prediction

Actual: Potato Early_Blight,
Predicted: Potato Early_Blight.
Confidence: 99.99%



Actual: Potato Healthy,
Predicted: Potato Healthy.
Confidence: 99.95%



Demo & Recommendation

- Add additional factor.
- Optimize the model.
- Create fully functional mobile app.



**Thank you so
much for
listening!**

