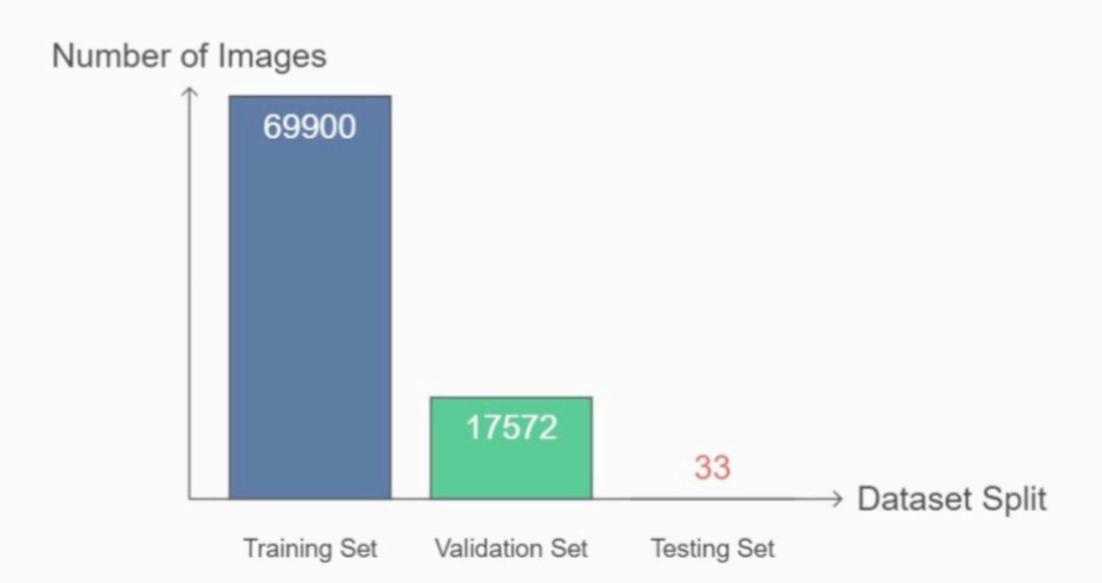
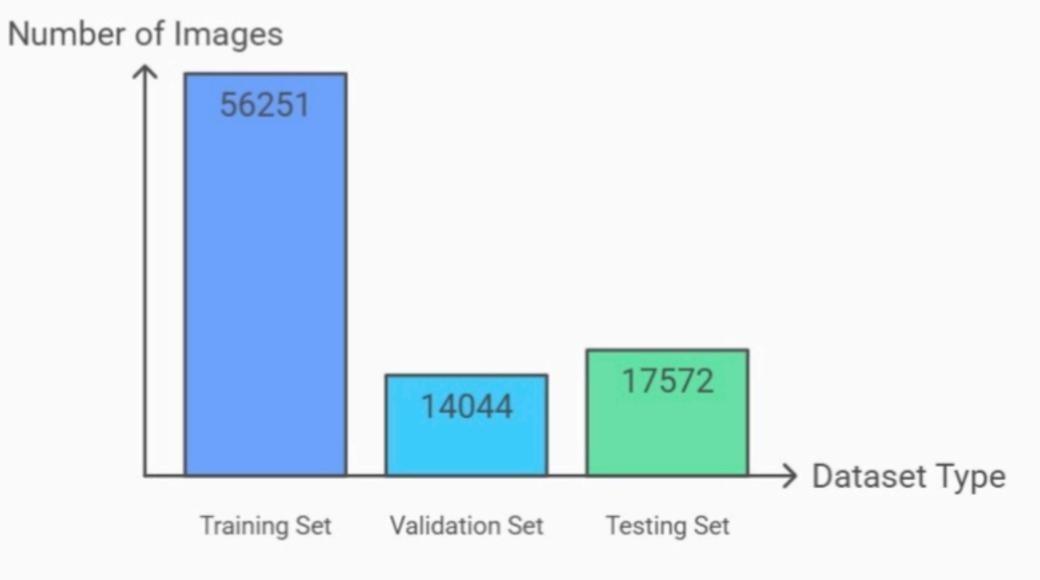


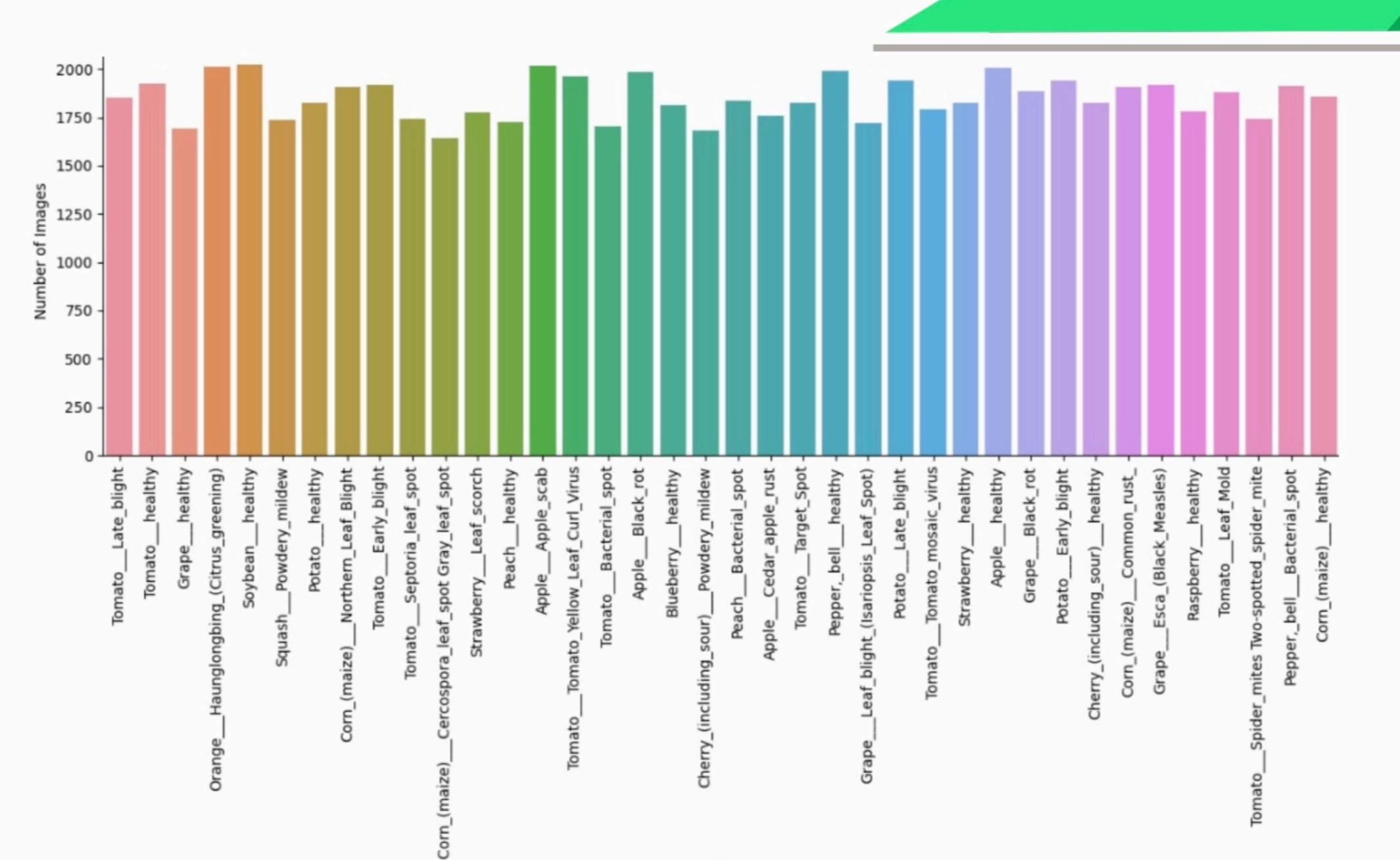
# Splitting Dataset



**Dataset Split** 



80% Training & Validation 20% Test





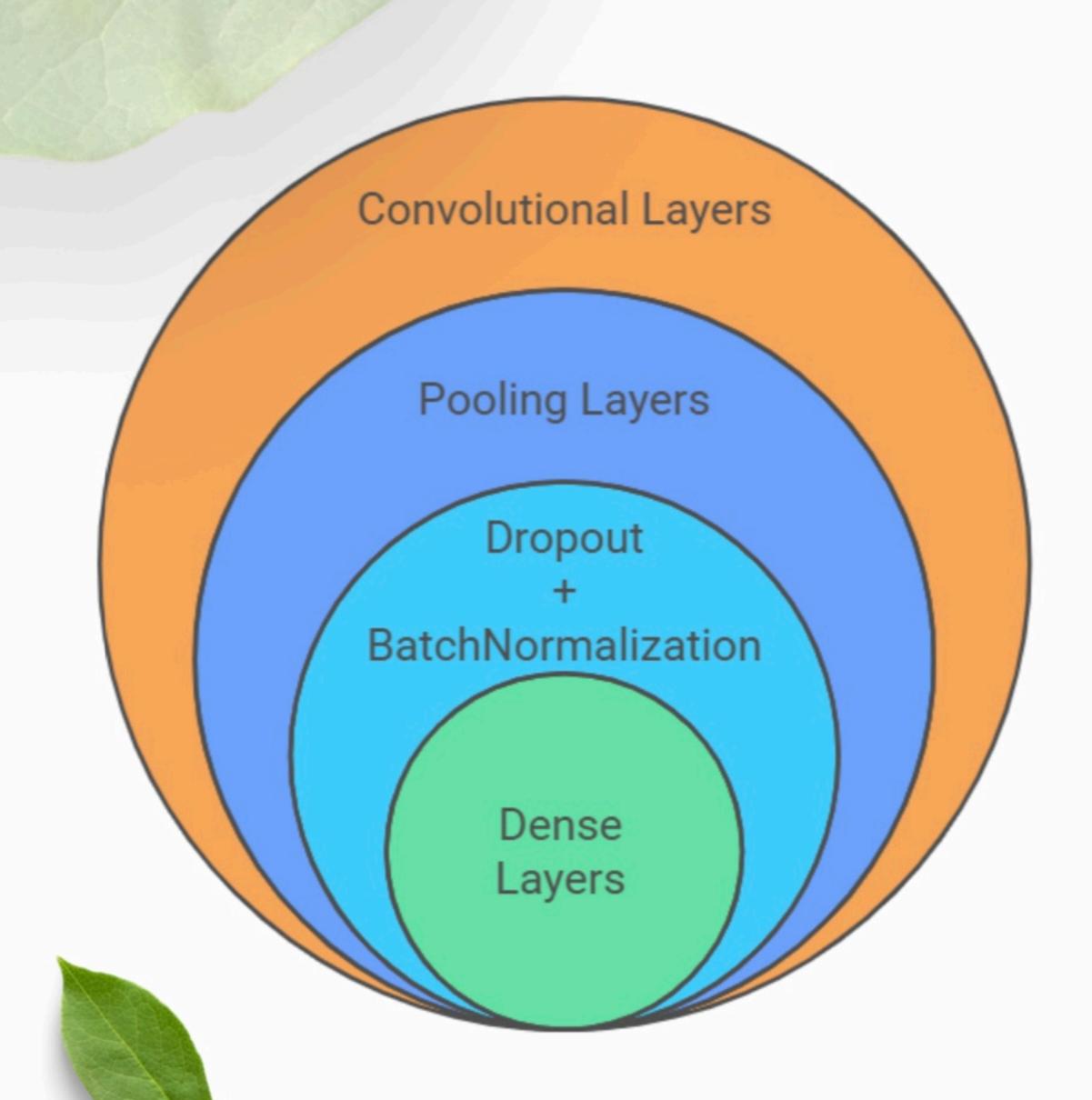
### Data Preprocessing

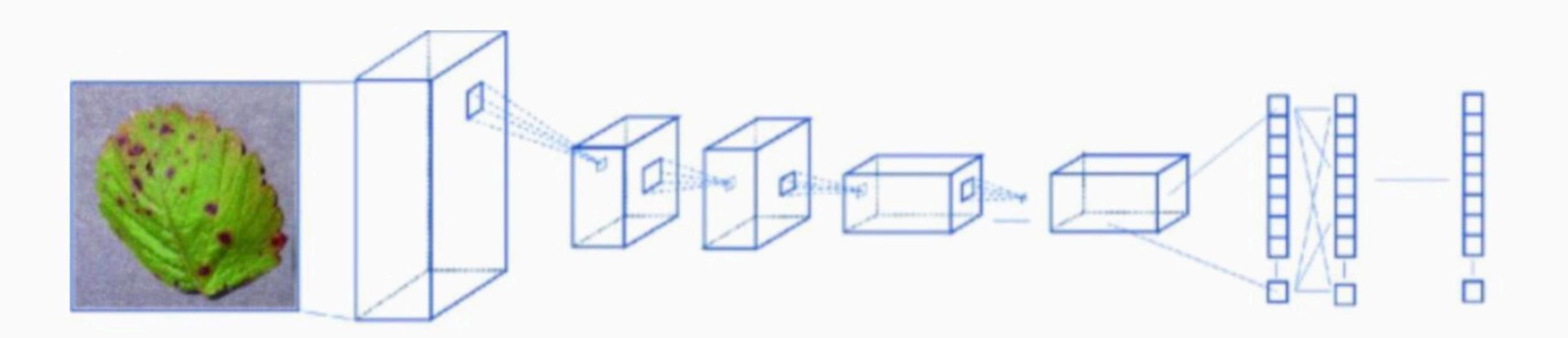
- Images are loaded directly from their directories using ImageDataGenerator.
- Only rescaling of pixel values is applied during loading to normalize the data

#### Neural Network Architecture

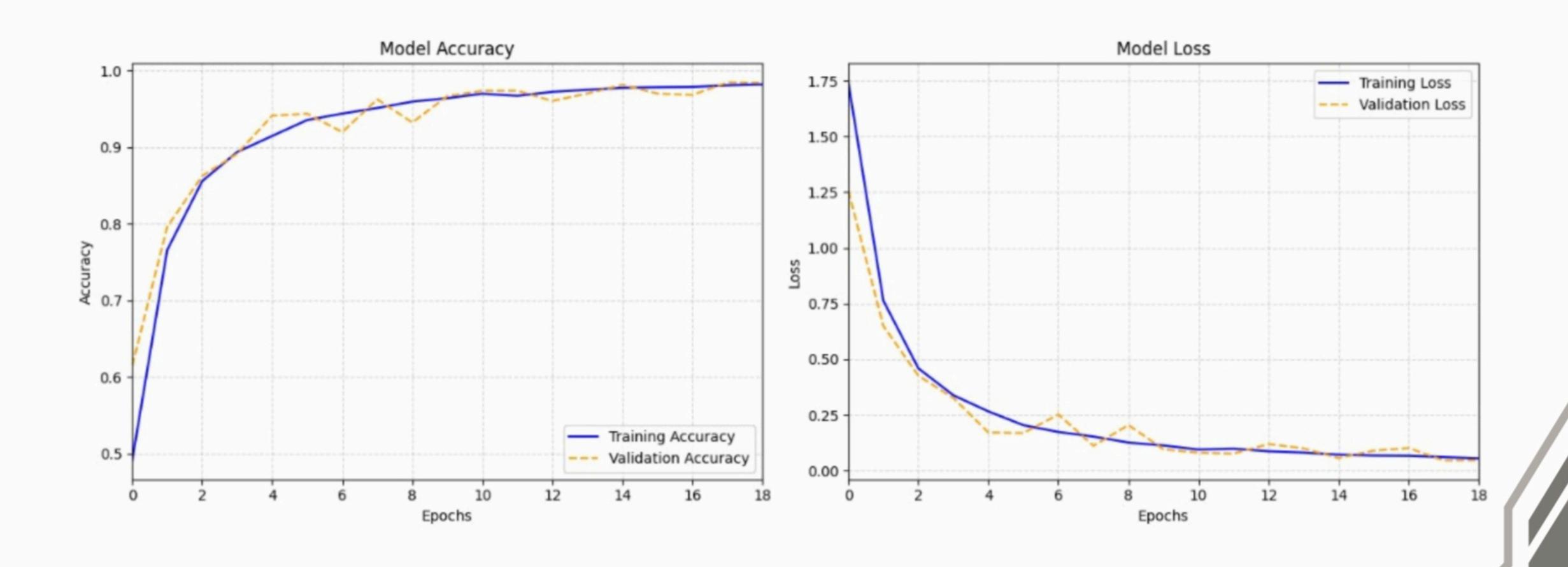
#### Detailed Model Layers

- •6 Conv2D
- •4 Pooling(Max + Global)
- •4 Dense
- •3 BatchNormalization
- •3 Dropout





## Evaluate model accuracy and loss



# Model Accudrcy

Macro avg	Precision	Support	Model
Training	0.98	56251	CNN
Validation	0.984	14044	CNN
Tasting	0.987	17572	CNN

#### VISUALIZATION OF PREDICTIONS

True: CornCommonRust1

Predicted: Corn\_(maize)\_\_\_Common\_rust\_



True: CornCommonRust3
Predicted: Corn\_(maize)\_\_Common\_rust\_



True: TomatoEarlyBlight1
Predicted: Tomato\_\_\_Early\_blight



# Evaluation Matrix for 38 class

