MODEL BUILDING

TESTING THE MODEL:

```
#loop over the testing samples

Pri in idxs:
image=cv2.imread(testingpath[i])
output=image.copy()

# load the input image,convert to grayscale and resize

output=cv2.resize(output,(128,128))
image=cv2.cvtColor(image,cv2.CoLOR_BGR2GRAY)
image=cv2.resize(image,(200,200))
image=cv2.threshold(image,0,255,cv2.THRESH_BINARY_INV | cv2.THRESH_OTSU)[1]

#quantify the image and make predictions based on the extracted feature using last trained random forest features=quantify_image(image)
preds=model.predict([features])
label=le.inverse_transform(preds)[0]
#the set of output images
if label=="healthy":
        color=(0,255,0)
else:
        color=(0,255,0)
else:
        color=(0,0,255)

cv2.putText(output,label,(3,20),cv2.FONT_HERSHEY_SIMPLEX,0.5,color,2)
images.append(output)

✓ 04s
```