

Hi, follow these instructions to test the model yourself. Although the process can be quite lengthy, it will be worth it.

1: Downloading the model

In the GitHub, go to

User Test/ResNet-Model.h5

And click the download button on the top right



2: Upload to Drive

After downloading the model, upload it to your Google Drive.

3: Open Google Colab

All of the code will go into Google Colab. Use this link: <https://colab.research.google.com>.

Log in with the same Google account where you uploaded the ResNet-50 model.

Click “new notebook” on the bottom left side of the pop-up.

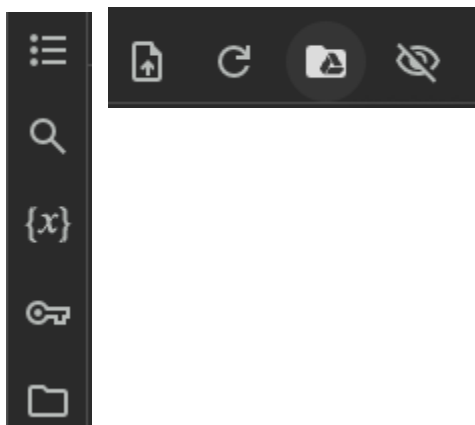
OR

Click “File” on the top left and “New notebook in drive”

Copy all the code from “[Disease_Classification_User_Testing.ipynb](#)” and paste it into this notebook.

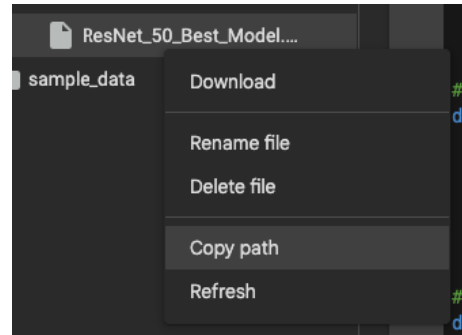
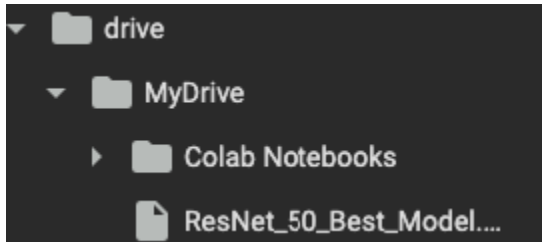
4: Connect to Drive on Colab

Click on the Folder Button on the left side of the screen. Then, click the Drive Folder and follow the instructions to mount drive to Colab.



5: Locate the model

Once Drive has been loaded, it should appear as a new folder. Navigate to the model using the drive folder(Your directory may look much different). Right-click on the model and then select copy path.



6: Adding the model to the code

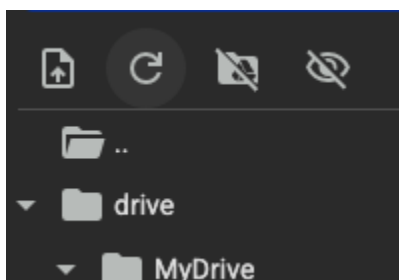
Replace this line of code with the copied path. Ensure that the quotation marks are not replaced

```
model_path = "/content/drive/MyDrive/ResNet_50_Best_Model.h5"
```

7: Downloading Apple Leaf Images

Congrats, you have instantiated the model and can now use the apple leaf disease images to test the model. Use images from the folder I provided in GitHub or you can look online for your own images.

Simply take the images from GitHub/Online and download them to your local machine. Once downloaded, upload these to the same Google Drive as the model. Click the refresh icon on the left of the Google Drive instantiation button to find the images.



Testing:

Similar to step 5, locate the images in the Drive Folder on Colab and copy their path.

Replace the highlighted section with the copied path. **Don't replace the quotation marks.**

Click the triangle inside the circle on the top left of the coding area to run the code(It might take some time depending on your computer's hardware).

```
result = classify_image(model, "/content/8a5c2ed32fdb6882.jpg", class_names)

import tensorflow as tf
import numpy as np
from tensorflow.keras.preprocessing import image
from tensorflow.keras.applications.resnet50 import preprocess_input
```

The result will appear right below the coding area and tell you what the AI model classified the image as.

You can repeat this process by replacing the highlighted code in the “result” variable, just like you did for your first classification.

Thank you for testing this AI model. I know that this process can be confusing, so if you have any questions, feel free to reach out to me through my email or phone number.

Email: 1079407@lammersvilleusd.net

Phone: 669-215-5368