










## Extract the .zip file

Name	Date modified	Type	Size
Last month			
 Diabetic_Retinopathy_2	26-03-2025 14:17	IPYNB File	1,678 KB
 Diabetic Retinopathy Synopsis	25-03-2025 18:32	Microsoft Word D...	55 KB
 images to test	25-03-2025 20:43	File folder	
 colored_images	25-03-2025 19:11	File folder	

## Upload “colored\_images” folder to your Google Drive

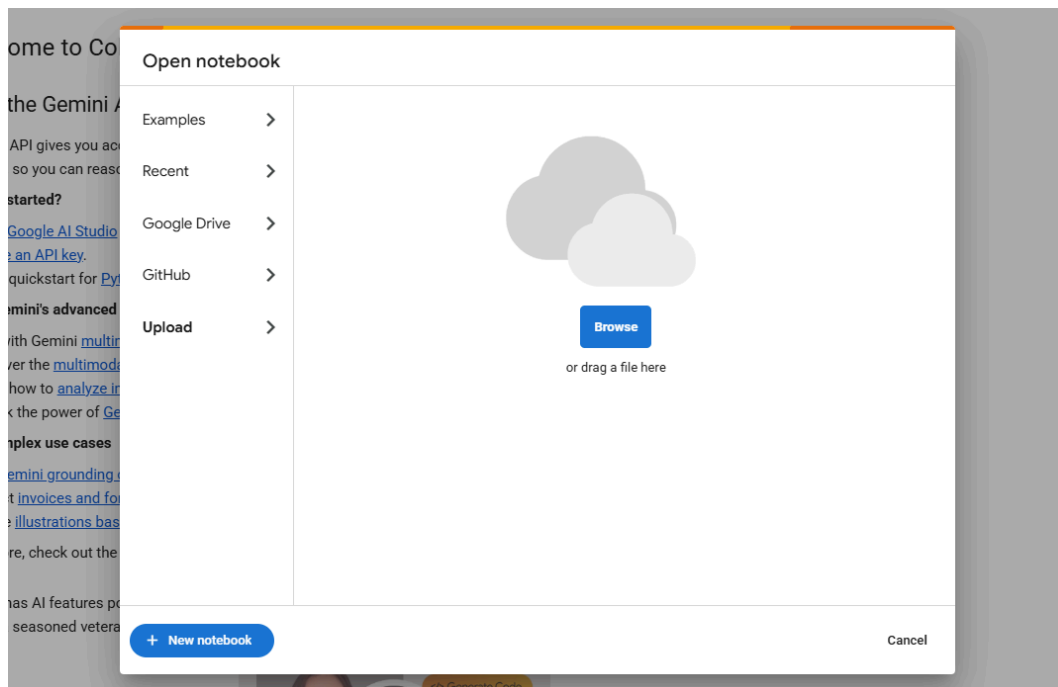
My Drive > colored\_images ▾

Type ▾ People ▾ Modified ▾ Source ▾

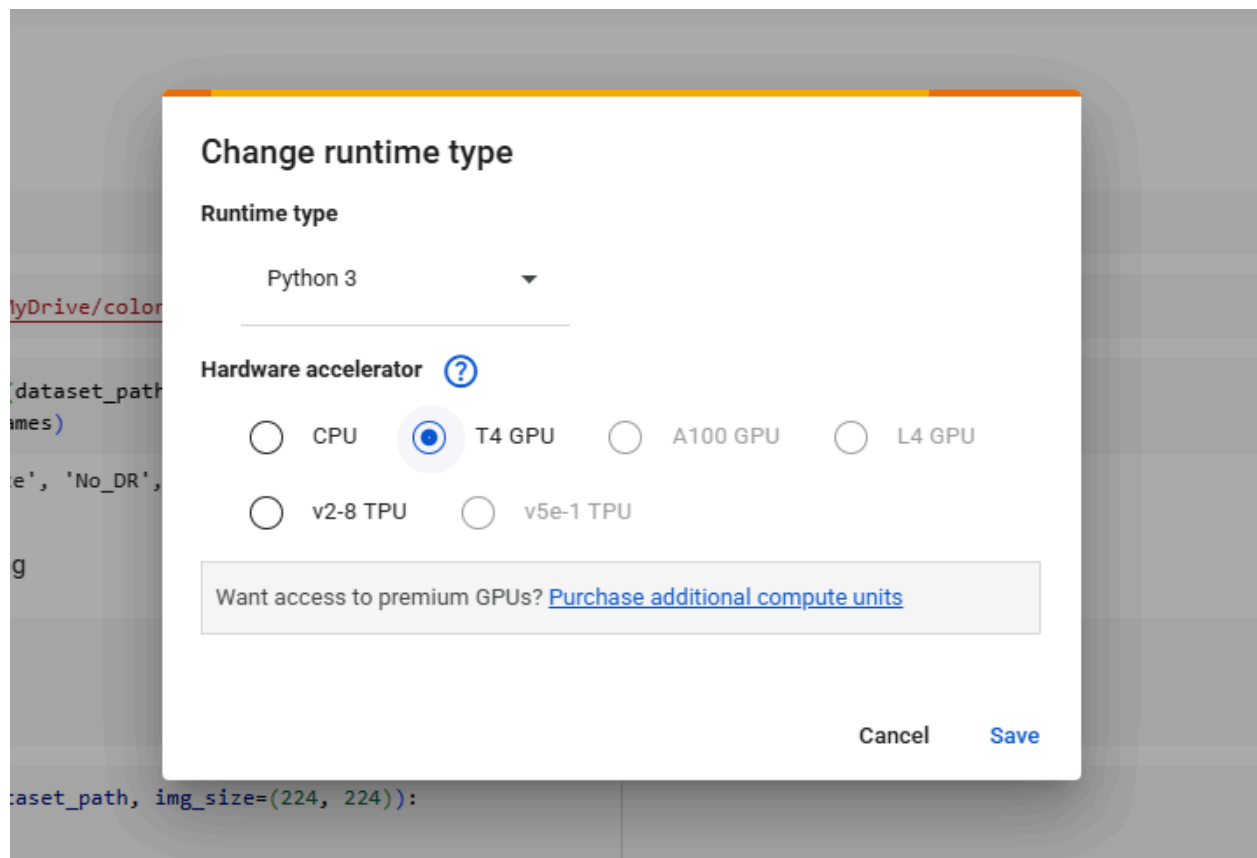
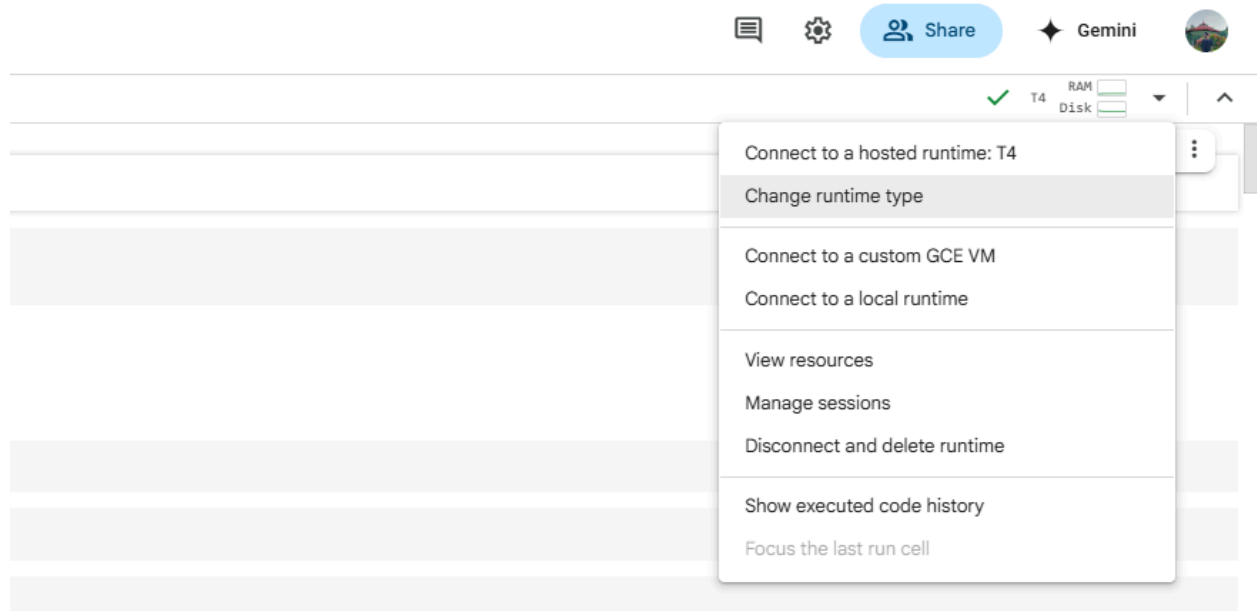
Name	Owner	Last modified	File size
 Proliferate_DR	me	Mar 25, 2025 me	—
 Severe	me	Mar 25, 2025 me	—
 Moderate	me	Mar 25, 2025 me	—
 Mild	me	Mar 25, 2025 me	—
 No_DR	me	Mar 25, 2025 me	—

Open Google Colab: <https://colab.research.google.com/>

Upload “Diabetic\_Retinopathy\_2.ipynb” file here: (and open)



Before executing change run time to T4



This T4-GPU is limited one trial per day, BE CAREFUL, DON'T OVER USE

RUN THE CODES: ONE BY ONE

STEP 1: Connect to Google Drive for the account where you have uploaded “colored\_images”

STEP 1: Mount Google Drive

```
from google.colab import drive
drive.mount('/content/drive')
```

...

STEP 2: Navigate to Dataset Directory

```
[ ] import os
```

```
[ ] dataset_path = "/content/drive/MyDrive/colored_images"
```

```
[ ] class_names = sorted(os.listdir(dataset_path))
print("Classes found:", class_names)
```

↔ Classes found: ['Mild', 'Moderate', 'No\_DR', 'Proliferate\_DR', 'Severe']

STEP 3: Load Images with Preprocessing

Permit this notebook to access your Google Drive files?

This notebook is requesting access to your Google Drive files. Granting access to Google Drive will permit code executed in the notebook to modify files in your Google Drive. Make sure to review notebook code prior to allowing this access.

No thanks [Connect to Google Drive](#)

STEP 2: Navigate to the path where you have uploaded “colored\_images” folder

- ▶ Shaik Afridi 2019
- ▼ colored\_images
  - ▶ Mild
  - ▶ Moderate
  - ▶ No\_DR
  - ▶ Proliferate\_DR
  - ▶ Severe
- ▶ Free Live Workshop ...

STEP 2: Navigate to Dataset Directory

```
import os
```

```
dataset_path = "/content/drive/MyDrive/colored_images"
```

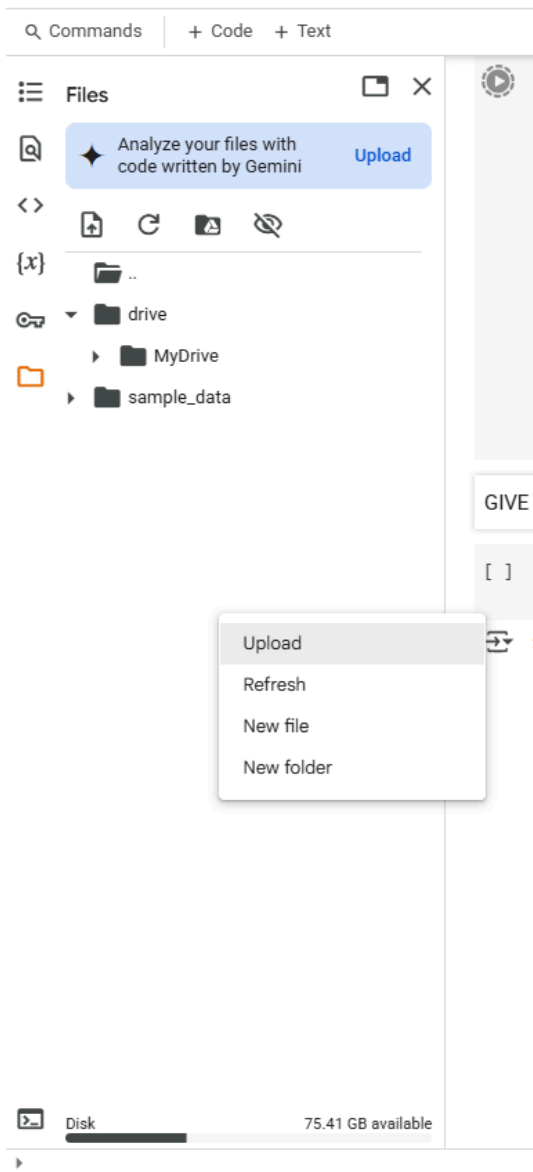
```
[4] class_names = sorted(os.listdir(dataset_path))
print("Classes found:", class_names)
```

↔ Classes found: ['Mild', 'Moderate', 'No\_DR', 'Proliferate\_DR', 'Severe']





NOW JUST RUN ALL THE CODES TILL STEP 15






In the step “Give the Sample Image”

Click on left, and Upload

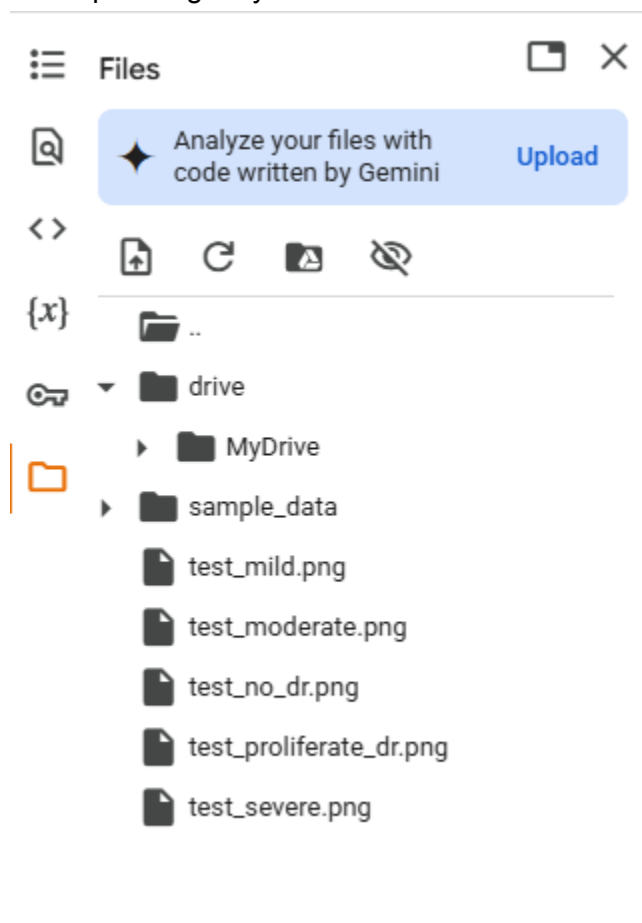


And upload all the images there in extracted “images to test folder”

Last month			
 Diabetic_Retinopathy_2	26-03-2025 14:17	IPYNB File	1,678 KB
 Diabetic Retinopathy Synopsis	25-03-2025 18:32	Microsoft Word D...	55 KB
 images to test	25-03-2025 20:43	File folder	
 colored_images	25-03-2025 19:11	File folder	

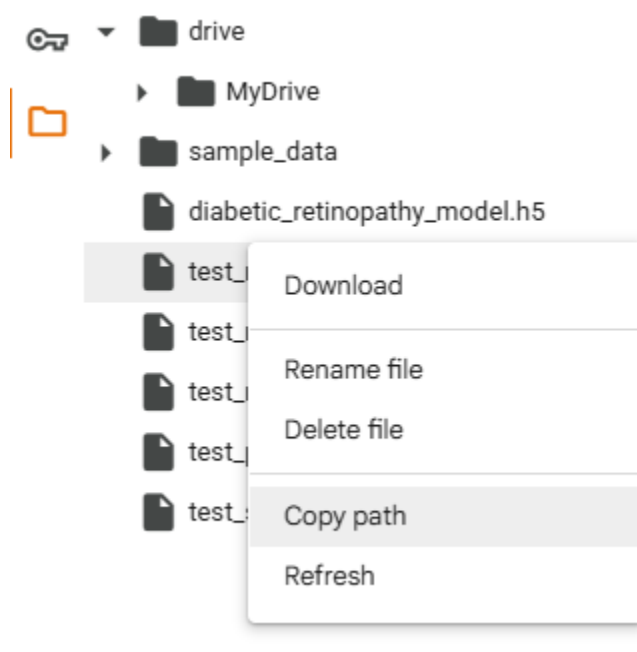
Name	Date modified	Type	Size
▼ Last month			
 test_severe	25-03-2025 20:43	PNG File	85 KB
 test_proliferate_dr	25-03-2025 20:43	PNG File	68 KB
 test_no_dr	25-03-2025 20:43	PNG File	68 KB
 test_moderate	25-03-2025 20:43	PNG File	69 KB
 test_mild	25-03-2025 20:43	PNG File	65 KB

After uploading they will be stored here! IN THE LEFT



## CHECKING THE OUTPUTS

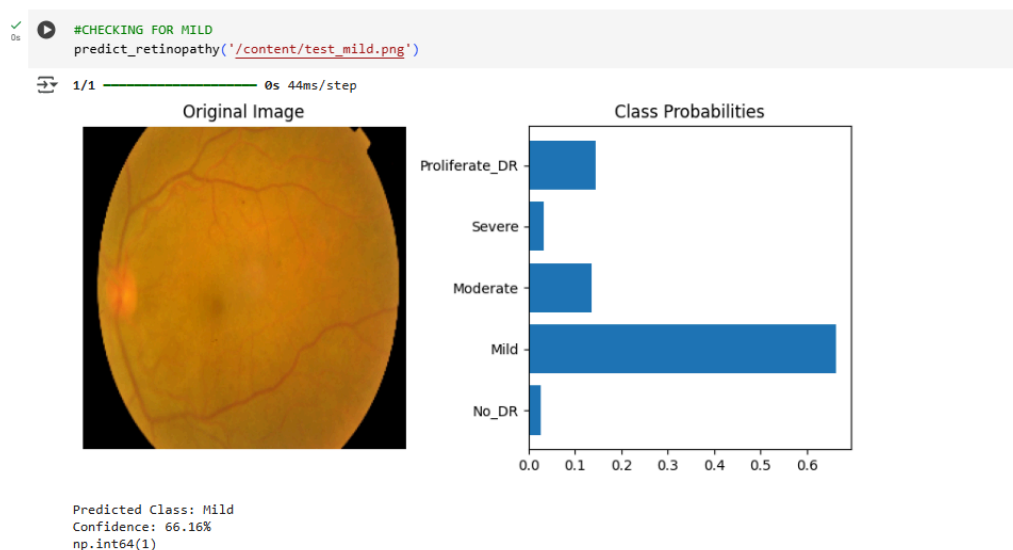
Copy the Path of each of the test\_ image and paste in the “predict\_retinopathy(\_\_\_\_\_)” code



```
#CHECKING FOR MILD
predict_retinopathy('/content/test_mild.png')
```

Don't forget to add single quotations ' ' at the start and end of the path '/content/test\_mild.png'

You will get the output:



Predicted Class: Mild, Along with the Probability Graph and Confidence percentage  
(And repeat the same steps for the remaining 4 disease stages as well)

You can tell that we have taken a limited number of training images, as it will take a lot of time to upload a whole 3gb worth of data and run the model over it.

So Data Sampling has been done.