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Mount drive if you are working on Google Colab else skip this cell

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

You would need to upload dataset on google drive

Segmentations Data set

Run

- File= Extracted_features.ipynb
- Change the working directory where the dataset is placed, within inverted commas

```python
import os
os.chdir('/content/drive/MyDrive/daugman') # main working directory
```

- Folder name of the dataset folder within inverted commas

```python
base_path='MMU-Iris-Database'
```

- Segmented pictures saving folder within in inverted commas with forward slash / at the end of the name.

```python
dir_='segmented/'
```

- Run All other cells It will create a folder name segmented or you decided with segmented pictures.

Requirements

Files "Duagman.py" and "Duagman_visuail_explaination.py" should be in the working directory.

Libraries

- matplotlib
- tqdm
- cv2 (OpenCV)
- numpy
- random
- os
- Itertools
- typing
- keras

Training the model

Run

- File= train.ipynb
- Change the working directory where the dataset is placed, within inverted commas

```python
import os
os.chdir('/content/drive/MyDrive/daugman/project') # main working directory
```

- Path for the segmented dataset with forward slash with in it.

```python
train_dir='segmented/' # path of the training set
```

- Set model name with extension 'h5' as format below. It will save model with same name.

```python
model_name='best_model.h5'
```

- Run other all cells It will save model everytime when validation loss would be detected lower than current in training mode. It will overwrite the model.

Requirements

Libraries

- tensorflow
- keras
- matplotlib
- numpy
- sklearn