Rete: Resnet50

.

Dataset: ORIGA-light (168 glaucoma / 480 normali)

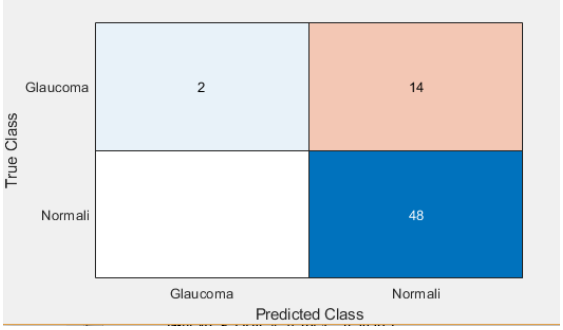
Split: 0.9 training / 0.1 validation (640 elementi)

Augmentation:

Options:

```
miniBatchSize = 10;
valFrequency = floor(numel(augimdsTrain.Files)/miniBatchSize);
options = trainingOptions('sgdm', ...
    'MiniBatchSize',miniBatchSize, ...
    'MaxEpochs',4, ...
    'InitialLearnRate',0.001, ...
    'Shuffle','every-epoch', ...
    'ValidationData',testAug, ...
    'ValidationFrequency',valFrequency, ...
    'Verbose',false, ...
    'Plots','training-progress');
```

Accuracy: 0.7813



Test:

Glaucoma
Im0646_g_ORIGA 0.226744 0.773256
Im0647_g_ORIGA 0.106573 0.893427
Im0648_g_ORIGA 0.027237 0.972763
Im0649_g_ORIGA 0.086278 0.913722
Im0650_g_ORIGA 0.009170 0.990830
Normali
Im0478_ORIGA 0.035990 0.964010 T
Im0479_ORIGA 0.000089 0.999911 T
Im0480_ORIGA 0.021835 0.978165 T
Im0481_ORIGA 0.050746 0.949254 T
Im0482_ORIGA 0.000089 0.999911 T

Rete: Resnet50

.

Dataset: ORIGA-light (168 glaucoma / 480 normali)

Split: 0.9 training / 0.1 validation (640 elementi)

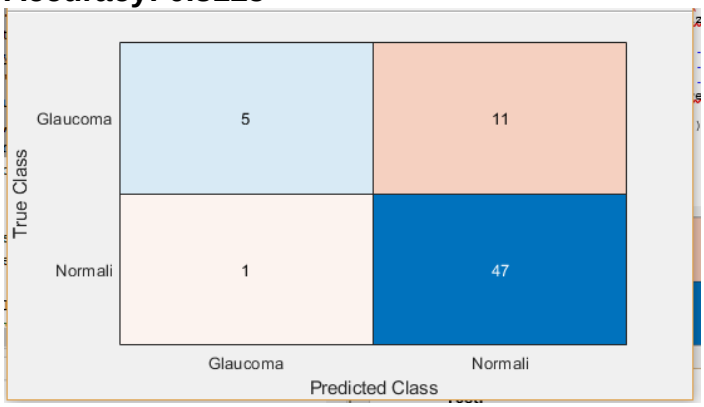
Augmentation:

```
pixelRange = [-22 22];
scaleRange = [0.9 1.1];
angleRange = [-10 10];
imageAugmenter = imageDataAugmenter( ...
    'RandXTranslation',pixelRange, ...
    'RandYTranslation',pixelRange, ...
    'RandXScale',scaleRange, ...
    'RandYScale',scaleRange, ...
    'RandRotation', angleRange);
```

Options:

```
miniBatchSize = 10;
valFrequency = floor(numel(augimdsTrain.Files)/miniBatchSize);
options = trainingOptions('sgdm', ...
    'MiniBatchSize',miniBatchSize, ...
    'MaxEpochs',8, ...
    'InitialLearnRate',0.001, ...
    'Shuffle','every-epoch', ...
    'ValidationData',testAug, ...
    'ValidationFrequency',valFrequency, ...
    'Verbose',false, ...
    'Plots','training-progress');
```

Accuracy: 0.8125



Test:

Glaucoma
Im0646_g_ORIGA 0.854209 0.145791 T
Im0647_g_ORIGA 0.085114 0.914886
Im0648_g_ORIGA 0.000001 0.999999
Im0649_g_ORIGA 0.419355 0.580645
Im0650_g_ORIGA 0.737348 0.262652 T
Normali
Im0478_ORIGA 0.400799 0.599201 T
Im0479_ORIGA 0.122038 0.877962 T
Im0480_ORIGA 0.795057 0.204943
Im0481_ORIGA 0.036929 0.963071 T
Im0482_ORIGA 0.000035 0.999965 T

Rete: Resnet50

.

Dataset: ORIGA-light (168 glaucoma / 480 normali)

Split: 0.9 training / 0.1 validation (tutto) randomized

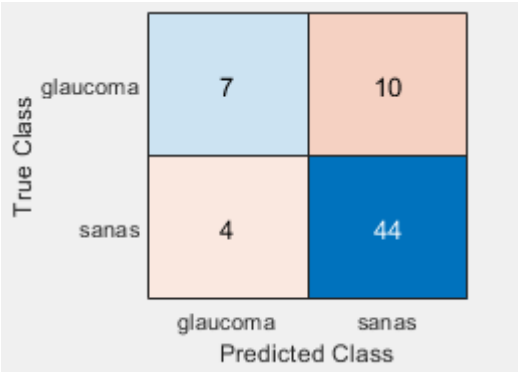
Augmentation:

```
pixelRange = [-22 22];
scaleRange = [0.9 1.1];
angleRange = [-10 10];
imageAugmenter = imageDataAugmenter( ...
    'RandXTranslation',pixelRange, ...
    'RandYTranslation',pixelRange, ...
    'RandXScale',scaleRange, ...
    'RandYScale',scaleRange, ...
    'RandRotation', angleRange);
```

Options:

```
miniBatchSize = 10;
valFrequency = floor(numel(augimdsTrain.Files)/miniBatchSize);
options = trainingOptions('sgdm', ...
    'MiniBatchSize',miniBatchSize, ...
    'MaxEpochs',12, ...
    'InitialLearnRate',0.001, ...
    'Shuffle','every-epoch', ...
    'ValidationData',testAug, ...
    'ValidationFrequency',valFrequency, ...
    'Verbose',false, ...
    'Plots','training-progress');
```

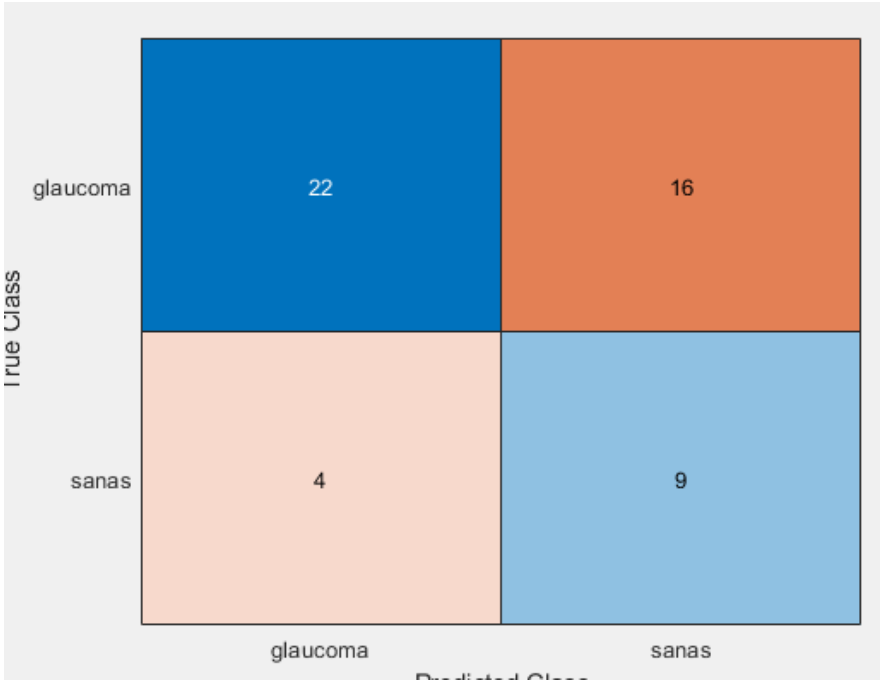
Accuracy: 0.7846



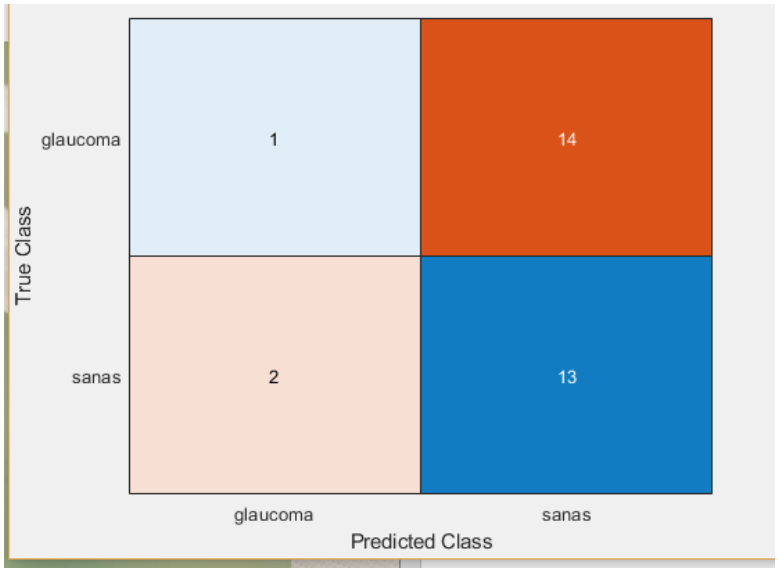
TEST

DRIshti-GS1_files_trainig Accuracy=0.6400

DRIshti-GS1_files_test Accuracy=0.6078



HRF Accuracy= 0.4667


glaucoma
sanas
True Class
1
14
2
13
glaucoma
sanas
Predicted Class