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%%%%%%%%%%%%%%%% DSP LAB PROJECT  %%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%% FACE RECOGNITION %%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%% 18NOVEMBER2018 %%%%%%%%%%%%%%%%%%

clc;
clear all;
close all;
%%%%%%%%%%%% Training %%%%%%%%%%%%%%%%%%%%%%%
s11=dir('/MATLAB Drive/train/*.jpg'); % Train face as input

for i=1:length(s11)

    fname=strcat('/MATLAB Drive/train/',s11(i).name);

    iim=imread(fname);
    im=rgb2gray(iim);
    figure;imshow(im);
    F(i,:)=featurestat(im); % Defining class
end

class(1:2,1)=2;
class(3:4,1)=1;

%modl=fitcnb(F,class);
modl=fitcknn(F,class);

%%%%%%%%%%%% Testing %%%%%%%%%%%%%%%%%%%%%%%
s1=dir('/MATLAB Drive/test/*.jpg');
% fname=strcat(path, fname);
for i=1:length(s1)

    fname=strcat('/MATLAB Drive/test/',s1(i).name);

    iim=imread(fname);
    im=rgb2gray(iim);
    figure;imshow(im);
    F1(i,:)=featurestat(im);
end

out=predict(modl,F1); %%predicts responses using trained network.
G1=transpose(F);
G2=transpose(class);
```

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