We trained all data set files using the same code structure because we are in a group. But we are testing in different data sets in each group members and their using the different hidden layer size, training epoch values and some parameters getting by best accuracy in their data stets.

1st step Meagre data

1st I create new folder and then add the datasets files in the folder. Then opened MATLAB and select that file location and opened that file. Then load datafiles in workspace using command window in MATLAB.

Then need the meagre those datasets files in one dataset file and it saved mergedData.mat File.

Below is the code that dose did.

% create an empty cell array to store the data from all file

combined\_all\_data = {};

% Loop through the files and combine their data

for i = 1:10

% Create the file name with leading zeros for numbers 1 to 9

if i < 10

file\_name = sprintf('U0%d\_Acc\_FreqD\_FDay.mat', i);

else

file\_name = sprintf('U%d\_Acc\_FreqD\_FDay.mat', i);

end

% Check if the file exists

if isfile(file\_name)

% Load the data

data = load(file\_name);

% Replace 'Acc\_FD\_Feat\_Vec' with the actual variable name in the files

if isfield(data, 'Acc\_FD\_Feat\_Vec')

combined\_all\_data{i} = [data.Acc\_FD\_Feat\_Vec, i \* ones(size(data.Acc\_FD\_Feat\_Vec, 1), 1)];

else

error('File %s does not contain the variable "Acc\_FD\_Feat\_Vec". Please check the file.', file\_name);

end

else

error('File %s does not exist. Please check the file naming or directory.', file\_name);

end

end

% Combined all loaded data into a single matrix

merged\_data = vertcat(combined\_all\_data{:});

% Save the merged data to a new file

save('mergedData.mat', 'merged\_data');

% Display message

disp('Data Merging Cmpleted. Merged data has been saved as mergedData.mat');

when I run that code it show the result like bellow in command window.

>> mergedData

Data Merging Cmpleted. Merged data has been saved as mergedData.mat

>>

In that case it crate merged data datasets in 360 rows and 44 column. When I create the for loop in load the data files and combined those data files in each other.

A computer screen shot of a program

Description automatically generated