Using same structure in training before data sets and that data sets merging parts need to be change the loaded files name and replace the actual variable name with the files.

In that code are given below.

% 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\_TimeD\_MDay.mat', i);

else

file\_name = sprintf('U%d\_Acc\_TimeD\_MDay.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\_TD\_Feat\_Vec')

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

else

error('File %s does not contain the variable "Acc\_TD\_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');

then command window showing the successful message in merge datasets.

