When I used the same part in changing some para metros and hidden layer size

for iteration = 1:10

fprintf('Iteration %d of 10\n', iteration);

% Create and configure the neural network

hiddenLayerSize = [30, 15]; % Hidden layer configuration

net = feedforwardnet(hiddenLayerSize, 'trainlm'); % Create a new NN

% Divide data into training, validation, and test sets

net.divideParam.trainRatio = 0.6; % 60% training

net.divideParam.valRatio = 0.2; % 20% validation

net.divideParam.testRatio = 0.2; % 20% testing

% Set training parameters

net.trainParam.epochs = 500; % Max epochs

net.trainParam.goal = 1e-5; % Performance goal

net.trainParam.min\_grad = 1e-8; % Minimum gradient

% Train the network with PCA-reduced inputs

[net, tr] = train(net, inputs, targets);