

```

%=====
%=====
%BLACK TREE VECTORIZED DEEP LEARNING
%=====
%=====
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%=====
%=====
%LOADS DATASET
%=====
%=====
clear all
clc

dataset_file = "/Users/charlesdavi/Desktop/Datasets/UCI/iris.txt";
dataset = csvread(dataset_file);

num_rows = size(dataset,1);
N = size(dataset,2) - 1;

[weight_vector] = mean_normalization(dataset,N);

dataset = weight_vector.*dataset;

[accuracy, num_predictions_vector, num_errors] = sort_conf_pred(dataset, N);

%calculates average accuracy over all iterations

num_iterations = size(accuracy,2)
accuracy_vector = [];

for i = 1 : num_iterations

    temp = accuracy(:,i);
    x = isnan(temp);
    temp(x) = [];

    accuracy_vector(i) = mean(temp);

endfor

figure, plot(accuracy_vector)

```