```
function [weight_vector] = mean_normalization(dataset,N)

  for i = 1 : N

    num_digits_vector(i) = spec_log_BlackTree(mean(abs(dataset(:,i))))/log2(10);

  endfor

  mean_num_digits = mean(num_digits_vector);

  for i = 1 : N

    x = mean_num_digits - num_digits_vector(i);
    weight_vector(i) = 10^x;

  endfor

  weight_vector(N+1) = 1; %the classifier dimensions

endfunction
```