```
% Test the predictions given by the model on the test datas

%CIFAR Dataset
[ C2_labels_predictions, C2_confusion_matrix, C2_accuracy ]
 = g2_predict_linear_regression(C_data_test(1:5000,:),
 C_labels_test(1:5000), C2_w_hat,0, 1);

% Display the confusion matrix and the accuracy
C2_confusion_matrix
C2_accuracy

% Display the confusion matrix through an image
colormap hot;
image(C2_confusion_matrix);
title('confusion matrix - naive bayes classifier - CIFAR dataset')

% Scatter plot of the resulting labels versus the true labels
C2_error = g3_plot_error( C_labels_test(1:5000),
 C2_labels_predictions, 20)
```

C2_confusion_matrix =

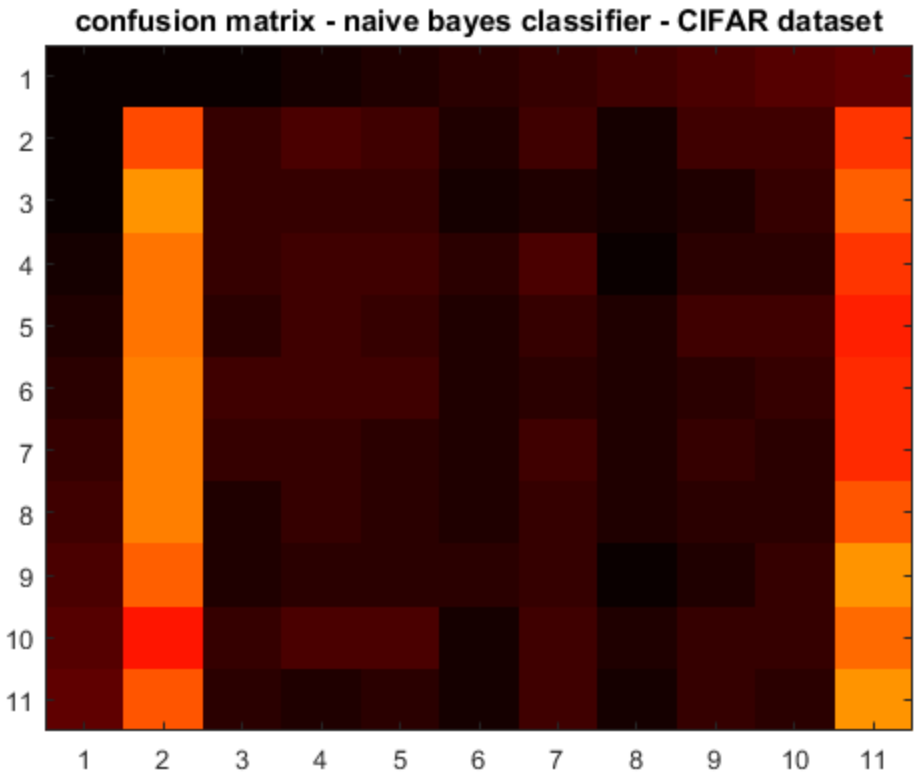
NaN	0	1	2	3	4	5	6	7	8	9
0	31	5	7	6	3	6	2	6	6	29
1	38	5	5	5	2	3	2	3	5	33
2	35	5	6	6	4	7	1	4	4	29
3	35	4	6	5	3	5	3	6	6	27
4	36	6	6	6	3	4	3	4	5	28
5	36	5	5	4	3	6	3	5	4	28
6	36	3	5	4	3	5	3	4	4	32
7	33	3	4	4	4	5	1	3	5	38
8	26	5	7	7	2	6	3	5	5	34
9	32	4	3	4	2	6	2	5	4	38

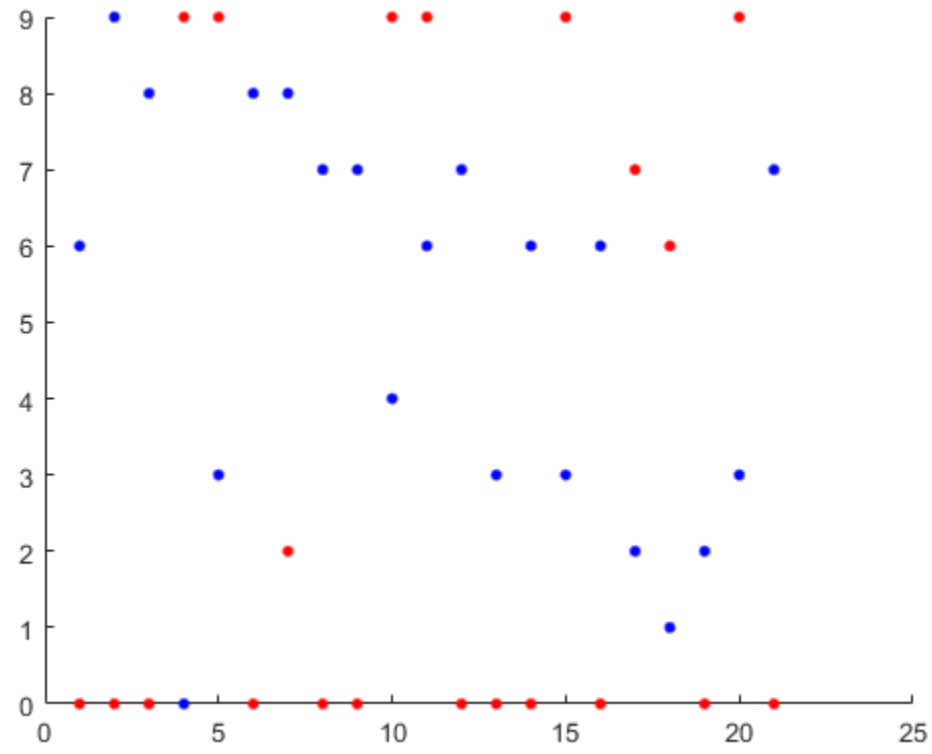
C2_accuracy =

0.1056

C2_error =

3.8548


confusion matrix - naive bayes classifier - CIFAR dataset
1
2
3
4
5
6
7
8
9
10
11
1
2
3
4
5
6
7
8
9
10
11


9
8
7
6
5
4
3
2
1
0
0
5
10
15
20
25

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