
```
% Test the predictions on the test data for the CIFAR dataset
[C_labels_prediction, C_confusion_matrix, C_accuracy] =
    f2_predict_naive_bayes_classifier( C_means, C_variances ,
    C_data_test(1:3000,:)./255, C_labels_test(1:3000,:), 0.0001);

% Display the confusion matrix and the accuracy
C_confusion_matrix
C_accuracy

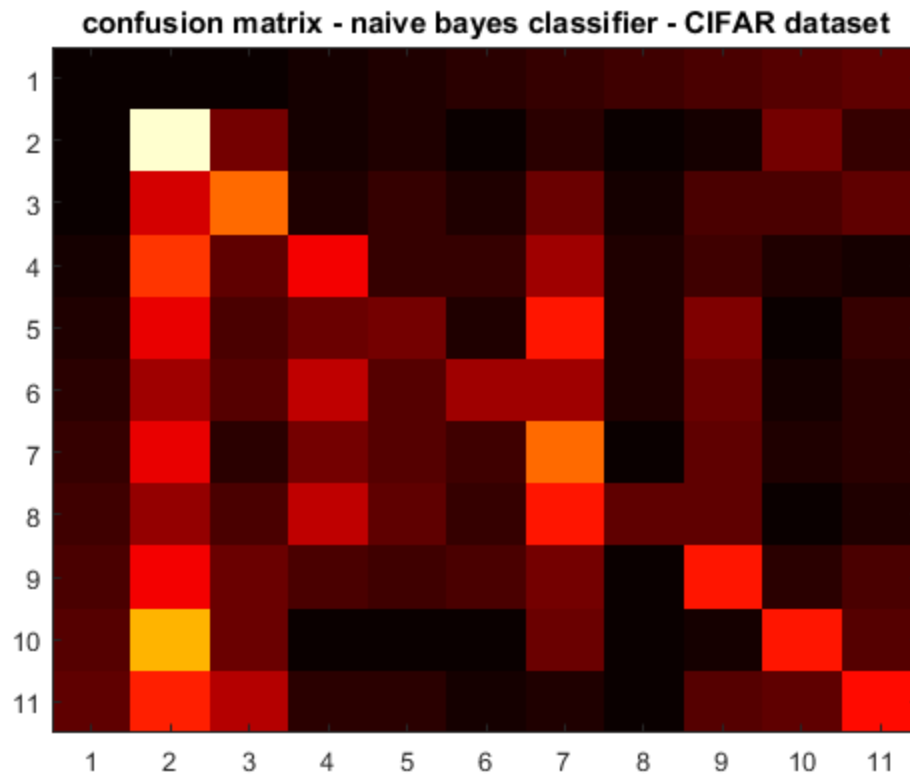
% Display the confusion matrix through an image
close all
colormap hot
image(C_confusion_matrix)
title('confusion matrix - naive bayes classifier - CIFAR dataset')
```

```
C_confusion_matrix =
```

NaN	0	1	2	3	4	5	6	7	8	9
0	61	11	2	3	1	4	0	2	11	5
1	20	34	3	5	3	10	2	7	7	9
2	29	9	23	5	5	15	3	6	3	2
3	22	7	10	11	3	26	3	12	1	5
4	15	8	18	8	15	15	3	10	2	4
5	22	4	11	8	6	34	0	9	3	4
6	14	7	18	9	5	26	9	9	0	3
7	23	10	7	6	7	11	0	26	4	7
8	41	10	0	1	1	10	1	2	26	8
9	27	17	4	4	2	3	1	8	9	25

```
C_accuracy =
```

```
0.2640
```



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