

CM_formanty_bez-kvantit_training

```
Call:
  randomForest(x = x, y = y, mtry = param$mtry)
    Type of random forest: classification
    Number of trees: 500
No. of variables tried at each split: 2

    OOB estimate of  error rate: 37.18%
Confusion matrix:
      a      e      i      o      u class.error
a 2753  789   54  605  66  0.3548160
e  439 4307  729  542  82  0.2938187
i   29 1152 2380  195  77  0.3790764
o  489  701   81 2527 327  0.3873939
u   43  203  133  681 566  0.6519065
> |
```

CM_MFCC_bez-kvantit_training

```
Call:
  randomForest(x = x, y = y, mtry = param$mtry)
    Type of random forest: classification
    Number of trees: 500
No. of variables tried at each split: 2

    OOB estimate of  error rate: 29.2%
Confusion matrix:
      a      e      i      o      u class.error
a 2909  799   7  393   4  0.2925584
e  389 4560  475  342  14  0.2110727
i   13 1042 2395  132  35  0.3378490
o  393  541   19 2773 113  0.2776765
u   17  123   42  606 699  0.5299260
> |
```

CM_MFCC_vc-kvantit_training

```
Call:
  randomForest(x = x, y = y, mtry = param$mtry)
    Type of random forest: classification
    Number of trees: 500
No. of variables tried at each split: 2

    OOB estimate of  error rate: 35.21%
Confusion matrix:
      a a:      e e:      i i:      o o:      u u: class.error
a 1805 141  819  0  2  2  421  0  5  0  0.4350548
a: 275 566   64  0  0  0  13  0  0  0  0.3834423
e 276  22 4819  0 180 109 320  0 12  0 0.1601603
e:   4 10   28  0  0  0  0  0  0  0 1.0000000
i   10  0 1182  0 430 364 125  0  6  0 0.7968824
i:   0  0  114  0 184 1170  1  0 31  0 0.2200000
o 287 29  556  0  8  1 2792  1 101  0 0.2603974
o:  14  5   0  0  0  0  44  0  2  0 1.0000000
u   13  0  138  0 22  5  566  0 622  0 0.5446559
u:   0  0   2  0  2  2  28  0  87  1 0.9918033
> |
```

FINAL_formanty_bez-kvantit

Confusion Matrix and Statistics

Prediction	Reference				
	a	e	i	o	u
a	903	128	13	180	22
e	269	1470	414	222	69
i	21	231	761	22	38
o	214	182	59	856	225
u	15	21	30	95	188

Overall Statistics

Accuracy : 0.6285
 95% CI : (0.6167, 0.6401)
 No Information Rate : 0.3057
 P-Value [Acc > NIR] : < 2.2e-16

Kappa : 0.514

Mcnemar's Test P-Value : < 2.2e-16

Statistics by Class:

	Class: a	Class: e	Class: i	Class: o	Class: u
Sensitivity	0.6350	0.7234	0.5959	0.6225	0.34686
Specificity	0.9344	0.7890	0.9419	0.8710	0.97363
Pos Pred Value	0.7247	0.6015	0.7092	0.5573	0.53868
Neg Pred Value	0.9039	0.8663	0.9074	0.8985	0.94380
Prevalence	0.2139	0.3057	0.1921	0.2068	0.08153
Detection Rate	0.1358	0.2211	0.1145	0.1288	0.02828
Detection Prevalence	0.1874	0.3676	0.1614	0.2310	0.05250
Balanced Accuracy	0.7847	0.7562	0.7689	0.7468	0.66025

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FINAL_MFCC_bez-kvantit

Confusion Matrix and Statistics

Prediction	Reference				
	a	e	i	o	u
a	987	121	2	113	6
e	241	1547	352	208	48
i	4	159	798	3	10
o	137	96	44	920	188
u	1	3	9	35	243

Overall Statistics

Accuracy : 0.7163
 95% CI : (0.705, 0.7275)
 No Information Rate : 0.3069
 P-Value [Acc > NIR] : < 2.2e-16

Kappa : 0.6275

Mcnemar's Test P-Value : < 2.2e-16

Statistics by Class:

	Class: a	Class: e	Class: i	Class: o	Class: u
Sensitivity	0.7204	0.8032	0.6622	0.7193	0.49091
Specificity	0.9507	0.8048	0.9653	0.9069	0.99170
Pos Pred Value	0.8031	0.6457	0.8193	0.6643	0.83505
Neg Pred Value	0.9241	0.9023	0.9232	0.9266	0.95789
Prevalence	0.2183	0.3069	0.1920	0.2038	0.07888
Detection Rate	0.1573	0.2465	0.1272	0.1466	0.03873
Detection Prevalence	0.1959	0.3818	0.1552	0.2207	0.04637
Balanced Accuracy	0.8356	0.8040	0.8138	0.8131	0.74130

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FINAL_MFCC_vc-kvantit

Overall Statistics

Accuracy : 0.6435
95% CI : (0.6315, 0.6554)
No Information Rate : 0.3048
P-Value [Acc > NIR] : < 2.2e-16

Kappa : 0.5479

McNemar's Test P-Value : NA

Statistics by Class:

	Class: a	Class: a:	Class: e	Class: e:	Class: i	Class: i:
Sensitivity	0.56579	0.65246	0.8326	0.000000	0.19716	0.77154
Specificity	0.94624	0.98860	0.7842	1.000000	0.97557	0.96969
Pos Pred Value	0.68254	0.74532	0.6285	NaN	0.50545	0.68750
Neg Pred Value	0.91429	0.98235	0.9144	0.997927	0.90562	0.98004
Prevalence	0.16964	0.04863	0.3048	0.002073	0.11240	0.07956
Detection Rate	0.09598	0.03173	0.2538	0.000000	0.02216	0.06138
Detection Prevalence	0.14062	0.04257	0.4039	0.000000	0.04385	0.08929
Balanced Accuracy	0.75601	0.82053	0.8084	0.500000	0.58637	0.87061

	Class: o	Class: o:	Class: u	Class: u:
Sensitivity	0.7409	0.000000	0.41099	0.000000
Specificity	0.8917	1.000000	0.98401	1.000000
Pos Pred Value	0.6319	NaN	0.66786	NaN
Neg Pred Value	0.9320	0.996652	0.95527	0.993622
Prevalence	0.2006	0.003348	0.07254	0.006378
Detection Rate	0.1486	0.000000	0.02982	0.000000
Detection Prevalence	0.2352	0.000000	0.04464	0.000000
Balanced Accuracy	0.8163	0.500000	0.69750	0.500000

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SUMMARY_formanty_bez-kvantit_training

Call:
summary.resamples(object = results)

Models: RF1, RF2
Number of resamples: 6

Accuracy

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
RF1	0.6172357	0.6250752	0.6257424	0.62609	0.6295253	0.6321805	0
RF2	0.6172357	0.6250752	0.6257424	0.62609	0.6295253	0.6321805	0

Kappa

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
RF1	0.499745	0.5106541	0.5111501	0.5115645	0.5153277	0.520133	0
RF2	0.499745	0.5106541	0.5111501	0.5115645	0.5153277	0.520133	0

SUMMARY_MFCC_vc-kvantit_training

Call:
summary.resamples(object = results)

Models: RF1, RF2
Number of resamples: 6

Accuracy

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
RF1	0.6968153	0.700709	0.7042936	0.7042212	0.7072199	0.7122153	0
RF2	0.6968153	0.700709	0.7042936	0.7042212	0.7072199	0.7122153	0

Kappa

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
RF1	0.6017626	0.6068185	0.6116277	0.6116647	0.615971	0.6223359	0
RF2	0.6017626	0.6068185	0.6116277	0.6116647	0.615971	0.6223359	0

> |