Confusion Matrix and Statistics

Reference

Prediction 1 2 3 4 5

1 84 10 18 14 27

2 3 13 6 2 13

3 25 11 300 10 66

4 3 2 4 81 25

5 256 127 449 258 4562

Overall Statistics

Accuracy : 0.7913

95% CI : (0.7811, 0.8013)

No Information Rate : 0.7369

P-Value [Acc > NIR] : < 2.2e-16

Kappa : 0.3783

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

Statistics by Class:

Class: 1 Class: 2 Class: 3 Class: 4 Class: 5

Sensitivity 0.22642 0.079755 0.38610 0.22192 0.9721

Specificity 0.98850 0.996133 0.97997 0.99434 0.3496

Pos Pred Value 0.54902 0.351351 0.72816 0.70435 0.8071

Neg Pred Value 0.95383 0.976311 0.91993 0.95459 0.8173

Prevalence 0.05825 0.025593 0.12200 0.05731 0.7369

Detection Rate 0.01319 0.002041 0.04710 0.01272 0.7163

Detection Prevalence 0.02402 0.005809 0.06469 0.01806 0.8874

Balanced Accuracy 0.60746 0.537944 0.68304 0.60813 0.6609

[1] "CART"

Confusion Matrix and Statistics

Reference

Prediction 1 2 3 4 5

1 0 0 0 0 0

2 0 0 0 0 0

3 93 29 134 31 115

4 0 0 0 0 0

5 278 134 643 334 4578

Overall Statistics

Accuracy : 0.7398

95% CI : (0.7289, 0.7506)

No Information Rate : 0.7369

P-Value [Acc > NIR] : 0.2999

Kappa : 0.1384

Mcnemar's Test P-Value : NA

Statistics by Class:

Class: 1 Class: 2 Class: 3 Class: 4 Class: 5

Sensitivity 0.00000 0.00000 0.17246 0.00000 0.9755

Specificity 1.00000 1.00000 0.95207 1.00000 0.1712

Pos Pred Value NaN NaN 0.33333 NaN 0.7672

Neg Pred Value 0.94175 0.97441 0.89224 0.94269 0.7139

Prevalence 0.05825 0.02559 0.12200 0.05731 0.7369

Detection Rate 0.00000 0.00000 0.02104 0.00000 0.7188

Detection Prevalence 0.00000 0.00000 0.06312 0.00000 0.9369

Balanced Accuracy 0.50000 0.50000 0.56227 0.50000 0.5734

[1] "C50"

Confusion Matrix and Statistics

Reference

Prediction 1 2 3 4 5

1 168 21 39 21 75

2 17 42 19 5 18

3 39 21 510 29 93

4 17 9 24 175 25

5 130 70 185 135 4482

Overall Statistics

Accuracy : 0.8442

95% CI : (0.8351, 0.8531)

No Information Rate : 0.7369

P-Value [Acc > NIR] : < 2.2e-16

Kappa : 0.613

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

Statistics by Class:

Class: 1 Class: 2 Class: 3 Class: 4 Class: 5

Sensitivity 0.45283 0.257669 0.65637 0.47945 0.9550

Specificity 0.97399 0.990493 0.96745 0.98751 0.6897

Pos Pred Value 0.51852 0.415842 0.73699 0.70000 0.8960

Neg Pred Value 0.96642 0.980696 0.95297 0.96895 0.8456

Prevalence 0.05825 0.025593 0.12200 0.05731 0.7369

Detection Rate 0.02638 0.006594 0.08008 0.02748 0.7037

Detection Prevalence 0.05087 0.015858 0.10865 0.03925 0.7854

Balanced Accuracy 0.71341 0.624081 0.81191 0.73348 0.8224