Linear discriminant analysis

Linear discriminant analysis **(LDA)** is a generalization of Fisher's linear discriminant, *a method used in statistics, pattern recognition and machine learning* to find a linear combination of features that characterizes or separates two or more classes of objects or events.

Split data into training and testing chunks

[1] 429 9

[1] 141 9

View model

Call:

Ida(Social ~ Visits + BounceRate, data = training)

Prior probabilities of groups:

Facebook LinkedIn Twitter

0.3473193 0.3263403 0.3263403

Group means:

Visits BounceRate

Facebook 32.03356 30.516779

LinkedIn 19.25000 7.635714

Twitter 39.67143 24.171429

Coefficients of linear discriminants:

LD1 LD2

Visits 0.04021930 0.05787536

BounceRate -0.09077141 -0.02928593

Proportion of trace:

LD1 LD2

0.8102 0.1898

Generate predictions on the training dataset

Facebook LinkedIn Twitter

2 0.2540350 0.46424789 0.2817171

3 0.2202796 0.54860327 0.2311172

4 0.3050667 0.34028080 0.3546525

6 0.1994113 0.51120091 0.2893878

7 0.1607683 0.49883084 0.3404009

9 0.5138971 0.08828803 0.3978149

Plot Linear discriminant analysis on Social

