

Package ‘betacal’

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Type Package

Title Beta Calibration

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Description Fit beta calibration models and obtain calibrated probabilities from them.

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beta_calibration	<i>Beta Calibration</i>
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Description

Builds a beta calibration model on probability vector p and label vector y , fitting the parameters chosen by the user, with possible values being "abm", "ab" and "am". Returns the calibration model, the calibration map and the chosen parameters.

Usage

```
beta_calibration(p, y, parameters="abm")
```

Arguments

p A vector of probabilities that will be used to train the calibration model.

y A vector of labels that will be used to train the calibration model.

parameters The parameters that will be fitted by the model.

See Also

[beta_predict.](#)

Examples

```
## Creating a vector of probabilities
p <- seq(0.01,0.99,0.01)

## Creating a label vector based on the probability vector
y <- rbinom(99,1,p)

## Fitting beta calibration with three parameters
calib <- beta_calibration(p, y, "abm")

## Fitting beta calibration with two shape parameters
calib <- beta_calibration(p, y, "ab")

## Fitting beta calibration with one shape parameter and one location parameter
calib <- beta_calibration(p, y, "am")
```

beta_predict	<i>Predict Calibrated Probabilities</i>
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Description

Returns calibrated probabilities from `calib$model`, where `calib` is obtained by calling the `beta_calibration` function.

Usage

```
beta_predict(p, calib)
```

Arguments

p A vector of probabilities that the model will calibrate.

calib A list containing a calibration map, a calibration model and the fitted parameters, obtained by calling the `beta_calibration` function.

See Also

[beta_predict.](#)

Examples

```
## Creating a vector of probabilities
p <- seq(0.01,0.99,0.01)

## Creating a label vector based on the probability vector
y <- rbinom(99,1,p)

## Fitting beta calibration with three parameters
calib <- beta_calibration(p, y, "abm")

## Obtaining calibrated probabilities
probas <- beta_predict(p, calib)
```

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