

Package ‘lift’

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Type Package

Title Compute the Top Decile Lift and Plot the Lift Curve

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Imports stats, graphics

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Description

Compute the top decile lift and plot the lift curve. Cumulative lift curves are also supported.

License GPL (>= 2)

LazyData TRUE

NeedsCompilation no

Repository CRAN

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R topics documented:

churn	1
plotLift	2
TopDecileLift	3

Index

4

churn

Churn data

Description

churn contains three variables: the churn predictions (probabilities) of two models, and observed churn

Usage

```
data(churn)
```

Format

A data frame with 1302 observations, and 3 variables: predictions, predictions2, churn.

Author(s)

Authors: Steven Hoornaert, Michel Ballings and Dirk Van den Poel, Maintainer: <Steven.Hoornaert@UGent.be>

Examples

```
data(churn)
str(churn)
```

plotLift

Compute the top decile lift and plot the lift curve

Description

plotLift plots the commonly used lift curve by ordering the data by the predictions, and computing the proportion of positives for each bucket.

Usage

```
plotLift(predicted, labels, cumulative = TRUE, n.buckets = 10, ...)
```

Arguments

<code>predicted</code>	A numeric vector with the classifier's predicted scores / probabilities
<code>labels</code>	An integer vector containing binary labels with values 0,1
<code>cumulative</code>	boolean. Should the cumulative lift curve be plotted or not?
<code>n.buckets</code>	scalar. How many buckets should be used. One can use more buckets with large datasets
<code>...</code>	additional parameters to the plot function

Value

lift curve

Author(s)

Steven Hoornaert, Michel Ballings, Dirk Van den Poel, Maintainer: <Steven.Hoornaert@UGent.be>

Examples

```
data(churn)
plotLift(churn$predictions, churn$labels)
```

TopDecileLift	<i>Compute the top decile lift and plot the lift curve</i>
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Description

TopDecileLift computes the commonly used top decile lift by ordering the data by the predictions, and computing the proportion of positives in the top 10%.

Usage

```
TopDecileLift(predicted, labels)
```

Arguments

predicted	A numeric vector with the classifier's predicted scores / probabilities
labels	An integer vector containing binary labels with values 0,1

Value

a scalar denoting the top decile lift

Author(s)

Steven Hoornaert, Michel Ballings, Dirk Van den Poel, Maintainer: <Steven.Hoornaert@UGent.be>

Examples

```
data(churn)
TopDecileLift(churn$predictions, churn$labels)
```

Index

*Topic **datasets**

churn, [1](#)

churn, [1](#)

plotLift, [2](#)

TopDecileLift, [3](#)