# Package 'fastNaiveBayes'

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Type Package

Title Extremely Fast Implementation of a Naive Bayes Classifier

Version 2.2.1

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**Description** This is an extremely fast implementation of a Naive Bayes classifier. This package is currently the only package that supports a Bernoulli distribution, a Multinomial distribution, and a Gaussian distribution, making it suitable for both binary features, frequency counts, and numerical features. Another feature is the support of a mix of different event models. Only numerical variables are allowed, however, categorical variables can be transformed into dummies and used with the Bernoulli distribution. The implementation is largely based on the paper

``A comparison of event models for Naive Bayes anti-spam e-mail filtering" written by K.M. Schneider (2003) <doi:10.3115/1067807.1067848>. Any issues can be submitted to: <https://github.com/mskogholt/fastNaiveBayes/issues>.

**Depends** R (>= 3.2.0)

License GPL-3

Encoding UTF-8

URL https://github.com/mskogholt/fastNaiveBayes

BugReports https://github.com/mskogholt/fastNaiveBayes/issues

LazyData TRUE

Imports Matrix, stats

Suggests knitr, rmarkdown, testthat

RoxygenNote 7.1.0

VignetteBuilder knitr

NeedsCompilation no

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fastNaiveBayes

Fast Naive Bayes Classifier for different Distributions

# Description

Extremely fast implementation of a Naive Bayes Classifier.

A Naive Bayes classifier that assumes independence between the feature variables. Currently, either a Bernoulli, multinomial, or Gaussian distribution can be used. The bernoulli distribution should be used when the features are 0 or 1 to indicate the presence or absence of the feature in each document. The multinomial distribution should be used when the features are the frequency that the feature occurs in each document. Finally, the Gaussian distribution should be used with numerical variables. The distribution parameter is used to mix different distributions for different columns in the input matrix

Use fastNaiveBayes(...) or fnb.train(...) for a mixed event distribution model. fnb.bernoulli, fnb.multinomial, fnb.gaussian and for the specific distributions

## Usage

```
fastNaiveBayes(
  х,
 у,
  priors = NULL,
  laplace = 0,
  sparse = FALSE,
  check = TRUE,
  distribution = fnb.detect_distribution(x)
)
## Default S3 method:
fastNaiveBayes(
  х,
 у,
 priors = NULL,
  laplace = 0,
  sparse = FALSE,
```

## fastNaiveBayes

```
check = TRUE,
 distribution = fnb.detect_distribution(x)
)
fnb.bernoulli(x, y, priors = NULL, laplace = 0, sparse = FALSE, check = TRUE)
## Default S3 method:
fnb.bernoulli(x, y, priors = NULL, laplace = 0, sparse = FALSE, check = TRUE)
fnb.gaussian(x, y, priors = NULL, sparse = FALSE, check = TRUE)
## Default S3 method:
fnb.gaussian(x, y, priors = NULL, sparse = FALSE, check = TRUE)
fnb.multinomial(x, y, priors = NULL, laplace = 0, sparse = FALSE, check = TRUE)
## Default S3 method:
fnb.multinomial(x, y, priors = NULL, laplace = 0, sparse = FALSE, check = TRUE)
fnb.poisson(x, y, priors = NULL, sparse = FALSE, check = TRUE)
## Default S3 method:
fnb.poisson(x, y, priors = NULL, sparse = FALSE, check = TRUE)
fnb.train(
 х,
 у,
 priors = NULL,
 laplace = 0,
  sparse = FALSE,
  check = TRUE,
  distribution = fnb.detect_distribution(x)
)
## Default S3 method:
fnb.train(
 х,
 у,
  priors = NULL,
  laplace = 0,
  sparse = FALSE,
 check = TRUE,
  distribution = fnb.detect_distribution(x)
)
```

## Arguments

Х

a numeric matrix, or a dgcMatrix. For bernoulli should only contain 0's and 1's. For multinomial should only contain integers.

У	a factor of classes to classify
priors	a numeric vector with the priors. If left empty the priors will be determined by the relative frequency of the classes in the data
laplace	A number used for Laplace smoothing. Default is 0
sparse	Use a sparse matrix? If true a sparse matrix will be constructed from x. It's possible to directly feed a sparse dgcMatrix as x, which will set this parameter to TRUE
check	Whether to enable formal checks on input. Recommended to set to TRUE. Set to FALSE will make it faster, but at your own risk.
distribution	A list with distribution names and column names for which to use the distribu- tion, see examples.

# Details

fastNaiveBayes(...) will convert non numeric columns to one hot encoded features to use with the Bernoulli event model. NA's in x will be set to 0 by default and observations with NA in y will be removed.

The distribution that is used for each feature is determined by a set of rules: - if the column only contains 0's and 1's a Bernoulli event model will be used - if the column only contains whole numbers a Multinomial event model will be used - if none of the above a Gaussian event model will be used.

By setting sparse = TRUE the numeric matrix x will be converted to a sparse dgcMatrix. This can be considerably faster in case few observations have a value different than 0.

It's also possible to directly supply a sparse dgcMatrix, which can be a lot faster in case a fastNaive-Bayes model is trained multiple times on the same matrix or a subset of this. See examples for more details. Bear in mind that converting to a sparse matrix can actually be slower depending on the data.

#### Value

A fitted object of class "fastNaiveBayes". It has four components:

model Fitted fastNaiveBayes model

names Names of features used to train this fastNaiveBayes model

distribution Distribution used for each column of x

levels Levels of y

### See Also

predict.fastNaiveBayes for the predict function for the fastNaiveBayes model.

# Examples

```
rm(list = ls())
library(fastNaiveBayes)
cars <- mtcars</pre>
```

# fnb.detect\_distribution

```
y <- as.factor(ifelse(cars$mpg > 25, "High", "Low"))
x <- cars[,2:ncol(cars)]</pre>
mod <- fastNaiveBayes(x, y, laplace = 1)</pre>
pred <- predict(mod, newdata = x)</pre>
mean(y!=pred)
mod <- fnb.train(x, y, laplace = 1)</pre>
pred <- predict(mod, newdata = x)</pre>
mean(y!=pred)
dist <- fnb.detect_distribution(x)</pre>
bern <- fnb.bernoulli(x[,dist$bernoulli], y, laplace = 1)</pre>
pred <- predict(bern, x[,dist$bernoulli])</pre>
mean(y!=pred)
mult <- fnb.multinomial(x[,dist$multinomial], y, laplace = 1)</pre>
pred <- predict(mult, x[,dist$multinomial])</pre>
mean(y!=pred)
gauss <- fnb.gaussian(x[,dist$gaussian], y)</pre>
pred <- predict(gauss, x[,dist$gaussian])</pre>
mean(y!=pred)
```

fnb.detect\_distribution Distribution Detection Function

## Description

Determines which distribution to use for which columns in the matrix based on a set of rules.

## Usage

```
fnb.detect_distribution(x, nrows = nrow(x))
```

```
## Default S3 method:
fnb.detect_distribution(x, nrows = nrow(x))
```

### Arguments

х	a numeric matrix, or a dgcMatrix
nrows	number of rows to use to detect distributions

## Details

A simple utility function to detect the distribution to use for each columns

# Value

A list of distribution names mapped to column names

# Examples

```
rm(list = ls())
library(fastNaiveBayes)
cars <- mtcars
y <- as.factor(ifelse(cars$mpg > 25, "High", "Low"))
x <- cars[, 2:ncol(cars)]
# Uses default of all rows to determine distributions
dist <- fnb.detect_distribution(x)
print(dist)
# Uses top 10 rows of x to determine distributions. If top 10 rows
# are representative this is can be much faster.
dist <- fnb.detect_distribution(x, nrows = 10)
print(dist)</pre>
```

fnb.save

```
Save & Load Function for Fast Naive Bayes Models
```

## Description

Loads and saves fitted Naive Bayes models.

## Usage

fnb.save(model, filename, overwrite = FALSE)
## Default S3 method:

fnb.save(model, filename, overwrite = FALSE)

fnb.load(filename)

## Default S3 method: fnb.load(filename)

# Arguments

model	the fitted Naive Bayes model to save.
filename	the file name to use to save or load the model.
overwrite	Whether to allow overwriting of previously saved models.

# fnb.update

## Value

fnb.save returns the filename that was used, and fnb.load returns the saved object.

# Examples

```
rm(list = ls())
library(fastNaiveBayes)
cars <- mtcars
y <- as.factor(ifelse(cars$mpg > 25, "High", "Low"))
x <- cars[,2:ncol(cars)]
mod <- fastNaiveBayes(x, y, laplace = 1)
fnb.save(mod, "fastNaiveBayesModel")
mod2 <- fnb.load("fastNaiveBayesModel")
identical(mod, mod2)
file.remove("fastNaiveBayesModel")</pre>
```

fnb.update

## Update function

#### Description

Update function

### Usage

```
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
## Default S3 method:
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
## S3 method for class 'fnb.bernoulli'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
## S3 method for class 'fnb.multinomial'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
## S3 method for class 'fnb.gaussian'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
## S3 method for class 'fnb.poisson'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
## S3 method for class 'fnb.poisson'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
## S3 method for class 'fastNaiveBayes'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```

## Arguments

object	fitted model
х	numeric matrix
У	factor of classes
sparse	boolean, set to true to use sparse matrices
check	boolean, set to true to enable formal checks on input

predict.fnb.bernoulli Predict Method for fastNaiveBayes fits

# Description

Uses a fastNaiveBayes model and a new data set to create the classifications. This can either be the raw probabilities generated by the fastNaiveBayes model or the classes themselves.

# Usage

```
## S3 method for class 'fnb.bernoulli'
predict(
  object,
  newdata,
  type = c("class", "raw", "rawprob"),
  sparse = FALSE,
  threshold = .Machine$double.eps,
  check = TRUE,
)
## S3 method for class 'fnb.gaussian'
predict(
 object,
  newdata,
  type = c("class", "raw", "rawprob"),
  sparse = FALSE,
  threshold = .Machine$double.eps,
  check = TRUE,
  . . .
)
## S3 method for class 'fnb.multinomial'
predict(
  object,
  newdata,
  type = c("class", "raw", "rawprob"),
  sparse = FALSE,
```

```
threshold = .Machine$double.eps,
  check = TRUE,
  . . .
)
## S3 method for class 'fnb.poisson'
predict(
 object,
 newdata,
  type = c("class", "raw", "rawprob"),
  sparse = FALSE,
  threshold = .Machine$double.eps,
 check = TRUE,
  . . .
)
## S3 method for class 'fastNaiveBayes'
predict(
 object,
 newdata,
  type = c("class", "raw"),
  sparse = FALSE,
  threshold = .Machine$double.eps,
 check = TRUE,
  . . .
)
```

# Arguments

object	A fitted object of class "fnb.bernoulli", "fnb.gaussian", "fnb.multinomial" or "fastNaiveBayes".
newdata	A numeric matrix. A Sparse dgcMatrix is also accepted. Note: if fnb.naiveBayes or fnb.gaussian or fnb.train was used to create the model, then if newdata con- tains features that were not encountered in the training data, these are omitted from the prediction. Furthermore, newdata can contain fewer features than en- countered in the training data. In this case, newdata will be padded with extra columns all filled with 0's.
type	If "raw", the conditional a-posterior probabilities for each class are returned, and the class with maximal probability else.
sparse	Use a sparse matrix? If true a sparse matrix will be constructed from x. It's possible to directly feed a sparse dgcMatrix as x, which will set this parameter to TRUE
threshold	A threshold for the minimum probability. For Bernoulli and Multinomial event models Laplace smoothing should solve this, but in the case of Gaussian event models, this ensures numerical probabilities.
check	Whether to perform formal checks on the input. Set to false, if this is not neces- sary and speed is of the essence
	not used

# Value

If type = 'class', a factor with classified class levels. If type = 'raw', a matrix with the predicted probabilities of each class, where each column in the matrix corresponds to a class level.

## See Also

fastNaiveBayes for the fastNaiveBayes model

tweets	This data originally came from Crowdflower's Data for Everyone li-
	brary.

# Description

As the original source says,

## Usage

tweets

## Format

A data frame with 14640 rows and 2 columns

airline\_sentiment sentiment, as either 'negative', 'neutral', 'positive'

text raw text, character

# Details

"A sentiment analysis job about the problems of each major U.S. airline. Twitter data was scraped from February of 2015 and contributors were asked to first classify positive, negative, and neutral tweets, followed by categorizing negative reasons (such as "late flight" or "rude service")."

The data provided here is an altered version of the original source.

#### Source

https://www.figure-eight.com/data-for-everyone/

## Description

As the original source says,

#### Usage

tweetsDTM

## Format

A data frame with 14640 rows and 2186 columns

airline\_sentiment sentiment, as either 'negative', 'neutral', 'positive' said Frequency count, numeric virginamerica Frequency count, numeric commerci Frequency count, numeric experi Frequency count, numeric plus Frequency count, numeric anoth Frequency count, numeric mean Frequency count, numeric must Frequency count, numeric need Frequency count, numeric take Frequency count, numeric today Frequency count, numeric trip Frequency count, numeric amp Frequency count, numeric blast Frequency count, numeric entertain Frequency count, numeric face Frequency count, numeric guest Frequency count, numeric littl Frequency count, numeric realli Frequency count, numeric recours Frequency count, numeric **bad** Frequency count, numeric big Frequency count, numeric thing Frequency count, numeric

fli Frequency count, numeric flight Frequency count, numeric pay Frequency count, numeric play Frequency count, numeric seat Frequency count, numeric serious Frequency count, numeric away Frequency count, numeric everi Frequency count, numeric near Frequency count, numeric time Frequency count, numeric wonut Frequency count, numeric yes Frequency count, numeric hat Frequency count, numeric miss Frequency count, numeric opportun Frequency count, numeric without Frequency count, numeric **now** Frequency count, numeric well Frequency count, numeric amaz Frequency count, numeric arriv Frequency count, numeric earli Frequency count, numeric good Frequency count, numeric hour Frequency count, numeric among Frequency count, numeric caus Frequency count, numeric death Frequency count, numeric know Frequency count, numeric lead Frequency count, numeric second Frequency count, numeric suicid Frequency count, numeric teen Frequency count, numeric better Frequency count, numeric much Frequency count, numeric pretti Frequency count, numeric alreadi Frequency count, numeric australia Frequency count, numeric deal Frequency count, numeric

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food Frequency count, numeric happen Frequency count, numeric hrs Frequency count, numeric least Frequency count, numeric next Frequency count, numeric option Frequency count, numeric say Frequency count, numeric site Frequency count, numeric togeth Frequency count, numeric worri Frequency count, numeric air Frequency count, numeric cold Frequency count, numeric get Frequency count, numeric ewr Frequency count, numeric eye Frequency count, numeric middl Frequency count, numeric red Frequency count, numeric **add** Frequency count, numeric birthday Frequency count, numeric book Frequency count, numeric cool Frequency count, numeric elev Frequency count, numeric enter Frequency count, numeric just Frequency count, numeric name Frequency count, numeric problem Frequency count, numeric club Frequency count, numeric current Frequency count, numeric onlin Frequency count, numeric oper Frequency count, numeric **post** Frequency count, numeric answer Frequency count, numeric expens Frequency count, numeric headphon Frequency count, numeric iad Frequency count, numeric left Frequency count, numeric number Frequency count, numeric

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inspir Frequency count, numeric march Frequency count, numeric entir Frequency count, numeric improv Frequency count, numeric request Frequency count, numeric treat Frequency count, numeric window Frequency count, numeric grand Frequency count, numeric exhaust Frequency count, numeric flier Frequency count, numeric frequent Frequency count, numeric inconveni Frequency count, numeric purpos Frequency count, numeric wtf Frequency count, numeric full Frequency count, numeric boo Frequency count, numeric **place** Frequency count, numeric result Frequency count, numeric usa Frequency count, numeric instead Frequency count, numeric pillow Frequency count, numeric race Frequency count, numeric advantag Frequency count, numeric fight Frequency count, numeric salt Frequency count, numeric behind Frequency count, numeric cabin Frequency count, numeric fav Frequency count, numeric hot Frequency count, numeric pari Frequency count, numeric uio Frequency count, numeric surgeri Frequency count, numeric tell Frequency count, numeric suitcas Frequency count, numeric past Frequency count, numeric order Frequency count, numeric regul Frequency count, numeric

atlant Frequency count, numeric benefit Frequency count, numeric virginatlant Frequency count, numeric came Frequency count, numeric husband Frequency count, numeric screen Frequency count, numeric bare Frequency count, numeric light Frequency count, numeric turbul Frequency count, numeric profit Frequency count, numeric funni Frequency count, numeric stori Frequency count, numeric forecast Frequency count, numeric nytim Frequency count, numeric applic Frequency count, numeric flylaxairport Frequency count, numeric **posit** Frequency count, numeric wonder Frequency count, numeric despit Frequency count, numeric revenu Frequency count, numeric competit Frequency count, numeric increas Frequency count, numeric sos Frequency count, numeric degre Frequency count, numeric wind Frequency count, numeric safeti Frequency count, numeric wanna Frequency count, numeric hope Frequency count, numeric newark Frequency count, numeric inappropri Frequency count, numeric probabl Frequency count, numeric save Frequency count, numeric standbi Frequency count, numeric comp Frequency count, numeric brought Frequency count, numeric readi Frequency count, numeric manag Frequency count, numeric

battl Frequency count, numeric old Frequency count, numeric treatment Frequency count, numeric uou Frequency count, numeric urgent Frequency count, numeric half Frequency count, numeric less Frequency count, numeric price Frequency count, numeric round Frequency count, numeric stun Frequency count, numeric dtw Frequency count, numeric sold Frequency count, numeric promo Frequency count, numeric made Frequency count, numeric paperwork Frequency count, numeric promis Frequency count, numeric resolut Frequency count, numeric perform Frequency count, numeric care Frequency count, numeric challeng Frequency count, numeric mileag Frequency count, numeric **ball** Frequency count, numeric americanair Frequency count, numeric gma Frequency count, numeric glad Frequency count, numeric took Frequency count, numeric earn Frequency count, numeric cheer Frequency count, numeric coupl Frequency count, numeric messag Frequency count, numeric easili Frequency count, numeric smooth Frequency count, numeric empti Frequency count, numeric forc Frequency count, numeric small Frequency count, numeric space Frequency count, numeric slow Frequency count, numeric

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integr Frequency count, numeric mexico Frequency count, numeric paper Frequency count, numeric wast Frequency count, numeric accept Frequency count, numeric system Frequency count, numeric black Frequency count, numeric tea Frequency count, numeric spread Frequency count, numeric learn Frequency count, numeric experienc Frequency count, numeric incred Frequency count, numeric philadelphia Frequency count, numeric houston Frequency count, numeric final Frequency count, numeric avgeek Frequency count, numeric forget Frequency count, numeric futur Frequency count, numeric jack Frequency count, numeric kinda Frequency count, numeric diego Frequency count, numeric malfunct Frequency count, numeric **poor** Frequency count, numeric thankyou Frequency count, numeric jose Frequency count, numeric compet Frequency count, numeric excel Frequency count, numeric portland Frequency count, numeric addit Frequency count, numeric thur Frequency count, numeric **uau** Frequency count, numeric carryon Frequency count, numeric lock Frequency count, numeric group Frequency count, numeric **room** Frequency count, numeric nightmar Frequency count, numeric classi Frequency count, numeric

strong Frequency count, numeric sure Frequency count, numeric shit Frequency count, numeric bump Frequency count, numeric luckili Frequency count, numeric rough Frequency count, numeric perfect Frequency count, numeric rais Frequency count, numeric stay Frequency count, numeric sun Frequency count, numeric man Frequency count, numeric wifi Frequency count, numeric donut Frequency count, numeric iull Frequency count, numeric saw Frequency count, numeric **dad** Frequency count, numeric part Frequency count, numeric whole Frequency count, numeric europ Frequency count, numeric short Frequency count, numeric abc Frequency count, numeric overhead Frequency count, numeric person Frequency count, numeric ask Frequency count, numeric luck Frequency count, numeric accommod Frequency count, numeric dear Frequency count, numeric lol Frequency count, numeric actual Frequency count, numeric other Frequency count, numeric serv Frequency count, numeric affect Frequency count, numeric shock Frequency count, numeric storm Frequency count, numeric umm Frequency count, numeric advanc Frequency count, numeric cut Frequency count, numeric

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top Frequency count, numeric unitedairlin Frequency count, numeric kudo Frequency count, numeric usual Frequency count, numeric advisori Frequency count, numeric quot Frequency count, numeric heat Frequency count, numeric rememb Frequency count, numeric captain Frequency count, numeric extrem Frequency count, numeric effici Frequency count, numeric real Frequency count, numeric henc Frequency count, numeric cloth Frequency count, numeric curious Frequency count, numeric conveni Frequency count, numeric washington Frequency count, numeric chicago Frequency count, numeric china Frequency count, numeric leg Frequency count, numeric loung Frequency count, numeric dms Frequency count, numeric owe Frequency count, numeric okay Frequency count, numeric dead Frequency count, numeric proper Frequency count, numeric forgot Frequency count, numeric onto Frequency count, numeric atroci Frequency count, numeric imposs Frequency count, numeric esp Frequency count, numeric Ihr Frequency count, numeric doubt Frequency count, numeric vacat Frequency count, numeric compliment Frequency count, numeric assur Frequency count, numeric nope Frequency count, numeric

sleep Frequency count, numeric compens Frequency count, numeric origin Frequency count, numeric ruin Frequency count, numeric defin Frequency count, numeric inbound Frequency count, numeric valid Frequency count, numeric **deliv** Frequency count, numeric deliveri Frequency count, numeric hostag Frequency count, numeric lbs Frequency count, numeric machin Frequency count, numeric write Frequency count, numeric blame Frequency count, numeric previous Frequency count, numeric tel Frequency count, numeric aviv Frequency count, numeric uiunit Frequency count, numeric feedback Frequency count, numeric taxi Frequency count, numeric action Frequency count, numeric solv Frequency count, numeric tire Frequency count, numeric comment Frequency count, numeric clt Frequency count, numeric idea Frequency count, numeric neveragain Frequency count, numeric within Frequency count, numeric cancun Frequency count, numeric continent Frequency count, numeric equal Frequency count, numeric deep Frequency count, numeric figur Frequency count, numeric fran Frequency count, numeric pack Frequency count, numeric **pax** Frequency count, numeric screw Frequency count, numeric

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fantast Frequency count, numeric annual Frequency count, numeric exchang Frequency count, numeric cont Frequency count, numeric dial Frequency count, numeric tablet Frequency count, numeric courteous Frequency count, numeric **yup** Frequency count, numeric alert Frequency count, numeric fave Frequency count, numeric dest Frequency count, numeric straight Frequency count, numeric anniversari Frequency count, numeric expedit Frequency count, numeric awe Frequency count, numeric **buffalo** Frequency count, numeric estim Frequency count, numeric join Frequency count, numeric gas Frequency count, numeric sept Frequency count, numeric magic Frequency count, numeric nasti Frequency count, numeric admir Frequency count, numeric customerservicefail Frequency count, numeric heavi Frequency count, numeric incom Frequency count, numeric stick Frequency count, numeric survey Frequency count, numeric rant Frequency count, numeric puerto Frequency count, numeric rico Frequency count, numeric annricord Frequency count, numeric **alot** Frequency count, numeric pet Frequency count, numeric west Frequency count, numeric admit Frequency count, numeric boss Frequency count, numeric

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## Details

"A sentiment analysis job about the problems of each major U.S. airline. Twitter data was scraped from February of 2015 and contributors were asked to first classify positive, negative, and neutral tweets, followed by categorizing negative reasons (such as "late flight" or "rude service")."

The data provided here is an altered and cleaned version version of the original source.

## Source

https://www.figure-eight.com/data-for-everyone/

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