Package ‘fastNaiveBayes’

May 4, 2020

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

Repository CRAN

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**R topics documented:**

- fastNaiveBayes
- fnb.detect_distribution
- fnb.save
- fnb.update
- predict.fnb.bernoulli
- tweets
- tweetsDTM

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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

```r
fastNaiveBayes(
  x,
  y,
  priors = NULL,
  laplace = 0,
  sparse = FALSE,
  check = TRUE,
  distribution = fnb.detect_distribution(x)
)
```

---

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


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(
    x,
    y,
    priors = NULL,
    laplace = 0,
    sparse = FALSE,
    check = TRUE,
    distribution = fnb.detect_distribution(x)
)
## Default S3 method:
fnb.train(
    x,
    y,
    priors = NULL,
    laplace = 0,
    sparse = FALSE,
    check = TRUE,
    distribution = fnb.detect_distribution(x)
)

**Arguments**

- **x**: a numeric matrix, or a dgcMatrix. For bernoulli should only contain 0’s and 1’s. For multinomial should only contain integers.
y 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 distribution, 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 fastNaiveBayes 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
```r
rm(list = ls())
library(fastNaiveBayes)
cars <- mtcars
```
```r
y <- as.factor(ifelse(cars$mpg > 25, "High", "Low"))
x <- cars[,2:ncol(cars)]

mod <- fastNaiveBayes(x, y, laplace = 1)
pred <- predict(mod, newdata = x)
mean(y!=pred)

mod <- fnb.train(x, y, laplace = 1)
pred <- predict(mod, newdata = x)
mean(y!=pred)

dist <- fnb.detect_distribution(x)
bern <- fnb.bernoulli(x[,dist$bernoulli], y, laplace = 1)
pred <- predict(bern, x[,dist$bernoulli])
mean(y!=pred)

mult <- fnb.multinomial(x[,dist$multinomial], y, laplace = 1)
pred <- predict(mult, x[,dist$multinomial])
mean(y!=pred)

gauss <- fnb.gaussian(x[,dist$gaussian], y)
pred <- predict(gauss, x[,dist$gaussian])
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**

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

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

**Arguments**

- `x` 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
```r
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)
```

fnb.save  
Save & Load Function for Fast Naive Bayes Models

Description
Loads and saves fitted Naive Bayes models.

Usage
```r
fnb.save(model, filename, overwrite = FALSE)
```

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

```r
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")
```

---

Description

Update function

Usage

```r
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```

## Default S3 method:
```r
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```

## S3 method for class 'fnb.bernoulli'
```r
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```

## S3 method for class 'fnb.multinomial'
```r
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```

## S3 method for class 'fnb.gaussian'
```r
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```

## S3 method for class 'fnb.poisson'
```r
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```

## S3 method for class 'fastNaiveBayes'
```r
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```
predict.fnb.bernoulli

Arguments

- **object**: fitted model
- **x**: numeric matrix
- **y**: 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

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

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

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

```r
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 contains features that were not encountered in the training data, these are omitted from the prediction. Furthermore, newdata can contain fewer features than encountered 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 necessary 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

<table>
<thead>
<tr>
<th>tweets</th>
<th>This data originally came from Crowdflower’s Data for Everyone library.</th>
</tr>
</thead>
</table>

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/
This data originally came from Crowdflower’s Data for Everyone library.

## Description

As the original source says,

## Usage

tweetsDTM

## Format

A data frame with 14640 rows and 2186 columns

<table>
<thead>
<tr>
<th>airline_sentiment</th>
<th>sentiment, as either 'negative','neutral','positive'</th>
</tr>
</thead>
<tbody>
<tr>
<td>said</td>
<td>Frequency count, numeric</td>
</tr>
<tr>
<td>virginamerica</td>
<td>Frequency count, numeric</td>
</tr>
<tr>
<td>commerci</td>
<td>Frequency count, numeric</td>
</tr>
<tr>
<td>experi</td>
<td>Frequency count, numeric</td>
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<tr>
<td>plus</td>
<td>Frequency count, numeric</td>
</tr>
<tr>
<td>anoth</td>
<td>Frequency count, numeric</td>
</tr>
<tr>
<td>mean</td>
<td>Frequency count, numeric</td>
</tr>
<tr>
<td>must</td>
<td>Frequency count, numeric</td>
</tr>
<tr>
<td>need</td>
<td>Frequency count, numeric</td>
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<tr>
<td>take</td>
<td>Frequency count, numeric</td>
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<td>today</td>
<td>Frequency count, numeric</td>
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<tr>
<td>trip</td>
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<td>amp</td>
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<tr>
<td>blast</td>
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<td>entertain</td>
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<td>face</td>
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<td>bad</td>
<td>Frequency count, numeric</td>
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<td>big</td>
<td>Frequency count, numeric</td>
</tr>
<tr>
<td>thing</td>
<td>Frequency count, numeric</td>
</tr>
</tbody>
</table>
fli Frequency count, numeric
flight Frequency count, numeric
pay Frequency count, numeric
play Frequency count, numeric
seat Frequency count, numeric
serious Frequency count, numeric
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time Frequency count, numeric
wonut Frequency count, numeric
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amaz Frequency count, numeric
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make Frequency count, numeric
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soon Frequency count, numeric
stop Frequency count, numeric
will Frequency count, numeric
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call Frequency count, numeric
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match Frequency count, numeric
program Frequency count, numeric
respons Frequency count, numeric
status Frequency count, numeric
abl Frequency count, numeric
anyth Frequency count, numeric
eat Frequency count, numeric
fail Frequency count, numeric
<table>
<thead>
<tr>
<th>Word</th>
<th>Frequency count, numeric</th>
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<tbody>
<tr>
<td>food</td>
<td></td>
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<td>happen</td>
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<td>hrs</td>
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<td>least</td>
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</tbody>
</table>
one Frequency count, numeric
await Frequency count, numeric
phone Frequency count, numeric
prefer Frequency count, numeric
return Frequency count, numeric
use Frequency count, numeric
end Frequency count, numeric
hawaii Frequency count, numeric
news Frequency count, numeric
start Frequency count, numeric
via Frequency count, numeric
year Frequency count, numeric
nice Frequency count, numeric
takeoff Frequency count, numeric
touchdown Frequency count, numeric
best Frequency count, numeric
ever Frequency count, numeric
way Frequency count, numeric
airlin Frequency count, numeric
around Frequency count, numeric
done Frequency count, numeric
hand Frequency count, numeric
can Frequency count, numeric
chat Frequency count, numeric
support Frequency count, numeric
work Frequency count, numeric
angel Frequency count, numeric
beyond Frequency count, numeric
sign Frequency count, numeric
view Frequency count, numeric
account Frequency count, numeric
flyer Frequency count, numeric
hard Frequency count, numeric
hey Frequency count, numeric
plz Frequency count, numeric
upgrad Frequency count, numeric
win Frequency count, numeric
citi Frequency count, numeric
expir Frequency count, numeric
move Frequency count, numeric
new Frequency count, numeric
ticket Frequency count, numeric
unos Frequency count, numeric
dalla Frequency count, numeric
feb Frequency count, numeric
leav Frequency count, numeric
seattl Frequency count, numeric
reason Frequency count, numeric
rock Frequency count, numeric
dream Frequency count, numeric
mind Frequency count, numeric
wow Frequency count, numeric
agre Frequency count, numeric
carrieunderwood Frequency count, numeric
ladygaga Frequency count, numeric
night Frequency count, numeric
oscar Frequency count, numeric
ago Frequency count, numeric
minut Frequency count, numeric
show Frequency count, numeric
suppos Frequency count, numeric
websit Frequency count, numeric
andrew Frequency count, numeric
impress Frequency count, numeric
juli Frequency count, numeric
though Frequency count, numeric
atlanta Frequency count, numeric
wish Frequency count, numeric
februari Frequency count, numeric
load Frequency count, numeric
never Frequency count, numeric
page Frequency count, numeric
sinc Frequency count, numeric
thx Frequency count, numeric
tri  Frequency count, numeric
stat  Frequency count, numeric
ladi  Frequency count, numeric
carri  Frequency count, numeric
let  Frequency count, numeric
market  Frequency count, numeric
song  Frequency count, numeric
shown  Frequency count, numeric
mari  Frequency count, numeric
sorri  Frequency count, numeric
beat  Frequency count, numeric
check  Frequency count, numeric
dal  Frequency count, numeric
dca  Frequency count, numeric
someone  Frequency count, numeric
earlier  Frequency count, numeric
hold  Frequency count, numeric
tonight  Frequency count, numeric
award  Frequency count, numeric
congrat  Frequency count, numeric
bag  Frequency count, numeric
everth  Frequency count, numeric
fine  Frequency count, numeric
lost  Frequency count, numeric
card  Frequency count, numeric
chang  Frequency count, numeric
credit  Frequency count, numeric
fee  Frequency count, numeric
waiv  Frequency count, numeric
custom  Frequency count, numeric
servic  Frequency count, numeric
team  Frequency count, numeric
track  Frequency count, numeric
baggag  Frequency count, numeric
dirti  Frequency count, numeric
floor  Frequency count, numeric
game  Frequency count, numeric
step  Frequency count, numeric
tabl  Frequency count, numeric
crew  Frequency count, numeric
like  Frequency count, numeric
plane Frequency count, numeric
ride  Frequency count, numeric
bill  Frequency count, numeric
correct Frequency count, numeric
morn  Frequency count, numeric
sat   Frequency count, numeric
yall  Frequency count, numeric
feet  Frequency count, numeric
film  Frequency count, numeric
student Frequency count, numeric
watch Frequency count, numeric
differ Frequency count, numeric
media Frequency count, numeric
anyway Frequency count, numeric
asap  Frequency count, numeric
human Frequency count, numeric
speak Frequency count, numeric
biz   Frequency count, numeric
jetblu Frequency count, numeric
southwestair Frequency count, numeric
inflight Frequency count, numeric
interest Frequency count, numeric
member Frequency count, numeric
delay Frequency count, numeric
late  Frequency count, numeric
whenev Frequency count, numeric
cancel Frequency count, numeric
four  Frequency count, numeric
busi  Frequency count, numeric
disappoint Frequency count, numeric
meet  Frequency count, numeric
share Frequency count, numeric
ium  Frequency count, numeric
troubled  Frequency count, numeric
wife  Frequency count, numeric
bring  Frequency count, numeric
code  Frequency count, numeric
bet  Frequency count, numeric
random  Frequency count, numeric
home  Frequency count, numeric
life  Frequency count, numeric
back  Frequency count, numeric
yeah  Frequency count, numeric
point  Frequency count, numeric
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tweetsDTM

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assult  Frequency count, numeric
dfwairport  Frequency count, numeric
filmcrew  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 of the original source.

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