Package ‘fastNaiveBayes’

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Type Package
Title Extremely Fast Implementation of a Naive Bayes Classifier
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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>.
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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(
  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)
)

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 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
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))
```

```r
# Default S3 method:
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

```
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.
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")
```

---

**fnb.update**

*Update function*

Description

Update function

Usage

```r
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 'fastNaiveBayes'
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,
  ...
)
```
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

| tweets | This data originally came from Crowdflower's Data for Everyone library. |

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
- **commercial** Frequency count, numeric
- **experti** 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
<table>
<thead>
<tr>
<th>tweet</th>
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<td>even</td>
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<td>gone</td>
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<td>great</td>
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uu0 Frequency count, numeric
awesom Frequency count, numeric
pleas Frequency count, numeric
want Frequency count, numeric
avail Frequency count, numeric
carrier Frequency count, numeric
fare Frequency count, numeric
may Frequency count, numeric
select Frequency count, numeric
three Frequency count, numeric
love Frequency count, numeric
brand Frequency count, numeric
feel Frequency count, numeric
anytim Frequency count, numeric
make Frequency count, numeric
non Frequency count, numeric
soon Frequency count, numeric
stop Frequency count, numeric
will Frequency count, numeric
free Frequency count, numeric
friend Frequency count, numeric
gave Frequency count, numeric
guy Frequency count, numeric
internet Frequency count, numeric
mess Frequency count, numeric
reserv Frequency count, numeric
appli Frequency count, numeric
call Frequency count, numeric
email Frequency count, numeric
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
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
together  Frequency count, numeric
worried  Frequency count, numeric
air  Frequency count, numeric
cold  Frequency count, numeric
get  Frequency count, numeric
ewr  Frequency count, numeric
eye  Frequency count, numeric
middle  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
expenses  Frequency count, numeric
headphone  Frequency count, numeric
iad  Frequency count, numeric
left  Frequency count, numeric
number  Frequency count, numeric
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
tweetsDTM

citi Frequency count, numeric
expir Frequency count, numeric
move Frequency count, numeric
new Frequency count, numeric
ticket Frequency count, numeric
unus 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
everyth  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
tweetsDTM

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
trouble 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
recent Frequency count, numeric
flightl Frequency count, numeric
jfk Frequency count, numeric
saturday Frequency count, numeric
video Frequency count, numeric
went Frequency count, numeric
land Frequency count, numeric
redirect Frequency count, numeric
btw Frequency count, numeric
user Frequency count, numeric
desktop Frequency count, numeric
mobil Frequency count, numeric
bin Frequency count, numeric
class Frequency count, numeric
passeng Frequency count, numeric
remov Frequency count, numeric
scan Frequency count, numeric
told Frequency count, numeric
uncomfort Frequency count, numeric
find Frequency count, numeric
anyon Frequency count, numeric
useless Frequency count, numeric
boy Frequency count, numeric
thursday Frequency count, numeric
appoint Frequency count, numeric
music Frequency count, numeric
bought  Frequency count, numeric
direct  Frequency count, numeric
fuel  Frequency count, numeric
layov  Frequency count, numeric
unexpect  Frequency count, numeric
vega  Frequency count, numeric
exp  Frequency count, numeric
peopl  Frequency count, numeric
customerservic  Frequency count, numeric
uouo  Frequency count, numeric
hung  Frequency count, numeric
line  Frequency count, numeric
sarcasm  Frequency count, numeric
info  Frequency count, numeric
plain  Frequency count, numeric
text  Frequency count, numeric
version  Frequency count, numeric
look  Frequency count, numeric
weather  Frequency count, numeric
getaway  Frequency count, numeric
lot  Frequency count, numeric
oneway  Frequency count, numeric
uiio  Frequency count, numeric
come  Frequency count, numeric
horribl  Frequency count, numeric
phl  Frequency count, numeric
concern  Frequency count, numeric
tech  Frequency count, numeric
comfort  Frequency count, numeric
easi  Frequency count, numeric
flown  Frequency count, numeric
repres  Frequency count, numeric
beauti  Frequency count, numeric
kick  Frequency count, numeric
rep  Frequency count, numeric
design  Frequency count, numeric
right  Frequency count, numeric
secur  Frequency count, numeric
gate  Frequency count, numeric
kept  Frequency count, numeric
las  Frequency count, numeric
run  Frequency count, numeric
wait  Frequency count, numeric
browser  Frequency count, numeric
folk  Frequency count, numeric
total  Frequency count, numeric
connect  Frequency count, numeric
long  Frequency count, numeric
min  Frequency count, numeric
seem  Frequency count, numeric
francisco  Frequency count, numeric
outstand  Frequency count, numeric
san  Frequency count, numeric
absolut  Frequency count, numeric
delight  Frequency count, numeric
complimentari  Frequency count, numeric
provid  Frequency count, numeric
intern  Frequency count, numeric
that  Frequency count, numeric
complet  Frequency count, numeric
depart  Frequency count, numeric
month  Frequency count, numeric
nonstop  Frequency count, numeric
link  Frequency count, numeric
precheck  Frequency count, numeric
process  Frequency count, numeric
tsa  Frequency count, numeric
hotel  Frequency count, numeric
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waterburi Frequency count, numeric
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- uii  Frequency count, numeric
- uiamericanair  Frequency count, numeric
- assult  Frequency count, numeric
- dfwairport  Frequency count, numeric
- filmcrew  Frequency count, numeric
- cowboycerron  Frequency count, numeric
- americanview  Frequency count, numeric

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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