# Package 'trollR'

April 19, 2018
Title Detecting if a post is trolling, one post at a time
Version 0.0.1
<b>Date</b> 2018-04-18
<b>Description</b> What the package does (one paragraph).
Depends R (>= 3.4.3), shiny, tidyverse
Imports doParallel, Matrix, plumber, shinydashboard, text2vec, tokenizers, tm, xgboost
License MIT
Encoding UTF-8
LazyData true
Suggests testthat
RoxygenNote 6.0.1
R topics documented:
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build\_features

build\_features

Builds the feature-matrix from a text-vector

#### **Description**

Builds the feature-matrix from a text-vector

#### Usage

```
build_features(x, term_count_min = 1, mdl = NULL, parallel = TRUE,
   quiet = FALSE)
```

#### **Arguments**

X	a vector of text
term_count_min	a number passed to prune_vocabulary, defaults to 1. In case the function is used for training, it can and should be set to some higher value, i.e., 3.
md1	is a list of existing models-data (containing the vectorizer, the tfidf, and the lsa object), defaults to NULL, in which case it is rebuild
parallel	T/F if the task should be executed in parallel, defaults to TRUE
quiet	T/F if the function remains silent, defaults to FALSE

#### Value

a list of two: a dgCMatrix that contains the features (columns) for each text (row) and as a second element a list of the model that can be passed as mdl

### **Examples**

```
text <- c(
   "This is a first text that describes something",
   "A second Text That USES A LOT of CAPITALS",
   "Lastly MANY!!!! (like, really a lot!) punctuations!!!"
)
build_features(text)

# a second example
train <- c("Banking is finance", "flowers are not houses", "finance is power", "houses are build")
test <- c("finance is greed", "flowers belong in the garbage", "houses are build")
a1 <- build_features(test)
a12 <- build_features(test, mdl = a1$mdl)
a2$model_matrix %>% as.matrix()
```

predict\_troll 3

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Detect if given texts are trolls

### Description

Detect if given texts are trolls

#### Usage

```
predict_troll(x, model_ = NULL, mdl_data_ = NULL)
```

# Arguments

x a vector of text

model\_ a model that is passed to predict, defaults to the model supplied with this pack-

age

mdl\_data\_ a model as returned by build\_features (the mdl) containing the vectorizer,

tfidf, and the lsa objects. Defaults to the mdl\_data from this package.

#### Value

a vector with the same lengths as x that holds the predicted probabilities that the given text is trolling

#### **Examples**

```
text <- c("You suck, die!", "What a nice world we have today", "I like you", "I hate you")
(pred <- predict_troll(text))</pre>
```

run\_api

Run the Plumber API

# Description

Run the Plumber API

# Usage

```
run_api(port = 8000)
```

#### **Arguments**

... parameters passed to plumber

#### Value

invisible NULL

shitwordlist

#### **Examples**

```
## Not run:
    run_api()
    # try to got to: http://127.0.0.1:8000/trollR
    # or use http://127.0.0.1:8000/trollR?text=This may be a troll comment
## End(Not run)
```

run\_shiny

Shiny App Launcher

# Description

Shiny App Launcher

#### Usage

```
run_shiny(example = "trollR")
```

# Arguments

example

name of the app, defaults to trollR

#### Value

Nothing

# Examples

```
## Not run:
  run_shiny()
## End(Not run)
```

shitwordlist

Shitword list

# Description

A list of Enlish curse words scraped from https://www.noswearing.com/dictionary

#### Usage

shitwordlist

# Format

A character vector containing 349 words.

test this is only for illustration purpose how to document data

london hello whatup

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