

Package ‘tsentiment’

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Type Package

Title Fetching Tweet Data for Sentiment Analysis

Version 1.0.5

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Description Which uses Twitter APIs for the necessary data in sentiment analysis, acts as a middleware with the approved Twitter Application.

A special access key is given to users who subscribe to the application with their Twitter account. With this special access key, the user defined keyword for sentiment analysis can be searched in twitter recent searches and results can be obtained(more information <<https://github.com/hakkisabah/tsentiment>>).

In addition, a service named tsentiment-services has been developed to provide all these operations (for more information <<https://github.com/hakkisabah/tsentiment-services>>).

After the successful results obtained and in line with the permissions given by the user, the results of the analysis of the word cloud and bar graph saved in the user folder directory can be seen. In each analysis performed, the previous analysis visual result is deleted and this is the basic information you need to know as a practice rule.

'tsentiment' package provides a free service that acts as a middleware for easy data extraction from Twitter, and in return, the user rate limit is reduced by 30 requests from the total limit and the remaining requests are used. These 30 requests are reserved for use in application analytics. For information about endpoints, you can refer to the limit information in the ``GET search/tweets" row in the Endpoints column in the list at <<https://developer.twitter.com/en/docs/twitter-api/v1/rate-limits>>.

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Encoding UTF-8

URL <https://github.com/hakkisabah/tsentiment>,
<https://www.tsentiment.com>

BugReports <https://github.com/hakkisabah/tsentiment/issues>

Depends R (>= 4.0)

Imports grDevices,reshape2,wordcloud,ggplot2,htr,syuzhet,tidytext,dplyr,tibble,stringi

RoxygenNote 7.2.1

NeedsCompilation no

Repository CRAN

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APIinfo	<i>tsentiment environment</i>
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Description

tsentiment environment

Usage

APIinfo

Arguments

APIinfo Environment

Format

An object of class environment of length 4.

checkConfirmForUser *User file permission checker*

Description

User file permission checker

Usage

checkConfirmForUser()

Value

String

Examples

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

checkVersionForSentiment
Check r Version

Description

This function checking using current R version

Usage

checkVersionForSentiment()

Value

boolean

Examples

```
checkVersionForSentiment()
```

cleanFetchedTweet	<i>Clean raw data</i>
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Description

This function clean fetched tweets

Usage

```
cleanFetchedTweet(fetchedTweet = NULL)
```

Arguments

fetchdTweet Fetched tweet has a lot of different characters

Value

table

clearPrevious	<i>Help for delete save files folder</i>
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Description

Help for delete save files folder

Usage

```
clearPrevious()
```

Value

Void

createFolder	<i>Folder creator</i>
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Description

This function create a folder in project path

Usage

```
createFolder()
```

Value

String

`getAnalysis`*Start analysis after defined Twitter API information*

Description

This function prepare API information and start analysis

Usage

```
getAnalysis()
```

Value

file

Examples

```
## Not run:  
clearPrevious()  
getCloudSentiment()  
getBarSentiment()  
  
## End(Not run)
```

`getBarSentiment`*Export bar plot*

Description

This function export a bar plot with analysed data

Usage

```
getBarSentiment(tweet = NULL)
```

Arguments

tweet Cleaned tweet data

Value

file

getCloudSentiment *Export word cloud*

Description

This function export a word cloud with analysed data

Usage

```
getCloudSentiment(text)
```

Arguments

text Cleaned tweet data

Value

file

getTweet *Get Tweet*

Description

This function only get tweet from tsentiment api

Usage

```
getTweet(fetchParams)
```

Arguments

fetchParams is variable

Value

JSON

Examples

```
## Not run:  
fetchParams <- list(headers = headers, params = params, url = APIinfo$url)  
getTweet(fetchParams)  
  
## End(Not run)
```

setAccount	<i>Set Twitter Developer Account Api Information</i>
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Description

This function should be used at the start of each session

Usage

```
setAccount(params)
```

Arguments

params Its have to required Twitter and request informations for using this package

Value

String

Examples

```
params <- list(BEARER_TOKEN = "DSEFS55SSS",query = "binance")
setAccount(params)
```

tweetFetcher	<i>Fetch Tweets</i>
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Description

This function prepare http information for fetching process and working together sub function

Usage

```
tweetFetcher()
```

Value

list

`writeToCSV`*Create CSV*

Description

This function create CSV file with parameters

Usage

```
writeToCSV(tweetData)
```

Arguments

`tweetData` fetched first dirty tweet data

Value

file

Examples

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

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