

Package ‘MediaNews’

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Type Package

Title Media News Extraction for Text Analysis

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Author Vatsal Aima

Maintainer Vatsal Aima <vaima75@hotmail.com>

Description Extract textual data from different media channels through its source, based on users choice of keywords. These data can be used to perform text analysis to identify patterns in respective media reporting. The media channels used in this package are print media from India. The data (or news) used are publicly available to consumers.

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Encoding UTF-8

LazyData true

OS_type windows

Imports lubridate (>= 1.7.4), rvest (>= 0.3.5), stats (>= 3.6.1), stopwords (>= 1.0), svMisc (>= 1.1.0), xml2 (>= 1.2.2)

RoxygenNote 7.0.1

NeedsCompilation no

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R topics documented:

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 ClearText

Text Cleaning: Custom Method

Description

Cleans text and introduce custom stopwords to remove unwanted words from given data.

Usage

```
ClearText(Text, CustomList = c(""))
```

Arguments

| | |
|------------|------------------------------------------------------------------------------------------------|
| Text | A String or Character vector, user-defined. |
| CustomList | A Character vector (Optional), user-defined vector to introduce stopwords ("english") in Text. |

Value

Returns Character

Author(s)

Vatsal Aima, <vaima75@hotmail.com>

See Also

[TOI_News_Articles](#), [TOI_News_Dataset](#)

Examples

```
##### Methodology #####
##### For DataFrame #####
#### Creates Dataset based on keyword

NewsData = TOI_News_Articles("Goibibo")

## Identify any potential factor columns
vc = sapply(NewsData, is.factor)

## Convert factors to characters
NewsData[vc] = lapply(NewsData[vc], as.character)

## Clean text on specific character columns
for (i in 1:nrow(NewsData)) NewsData$News[i] = ClearText(NewsData$News[i])

##### For Character Variable #### Ex2 #####

para = "Moreover, the text data we get is noisy. But, if we can learn some
```

methods useful to extract important features from the noisy data, wouldn't scandal that be amazing ? In this tutorial, you'll learn how to extract regular expressions from scratch. At first, you might find these expressions confusing, or complicated, but after following the steps in <https://anaconda.com/anaconda-enters-new-chapter/> you should feel quite comfortable with it. In addition, we'll also learn about string manipulation functions in R. This formidable combination of string manipulation functions and regular expressions will prepare you for text mining."

```
clearpara = ClearText(para,
                      CustomList = c("scooby-doo",
                                      "cartoon-network",
                                      "detective",
                                      "scandal"))

##### For List #####

paraList = list(para, 1213, factor('aasd;kasdioasd'))
paraList = lapply(paraList, as.character)
for (x in 1:length(paraList)) paraList[[x]] = ClearText(paraList[[x]])
```

 TOI_News_Articles

Extract Media News

Description

Creates a DataFrame or Write files to disk by extracting text data from source based on user's keywords.

Usage

```
TOI_News_Articles(
  keywords,
  IsDataFrame = TRUE,
  IsDate = FALSE,
  start_date,
  end_date
)
```

Arguments

| | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| keywords | A String, user-defined. |
| IsDataFrame | Boolean Value, to determine whether the outcome should be a Dataframe or files written to disk. if set to <i>FALSE</i> then returns the files will be written to disk at stated working directory (default <i>TRUE</i>). |

| | |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IsDate | Boolean Value, to determine whether to perform filtering operations based on dates. If set to <i>TRUE</i> then Date operations will be applied (default <i>FALSE</i>). |
| start_date | Date Value, provide the starting date FROM where the data should be extracted. NOTE: only provide start_date when IsDate is set <i>TRUE</i> . |
| end_date | Date Value, provide the ending date TO where the data should be extracted. NOTE: only provide end_date when IsDate is set <i>TRUE</i> . |

Value

Returns DataFrame or write files to the disk based on keywords

Author(s)

Vatsal Aima, <vaima75@hotmail.com>

See Also

[TOI_News_Dataset](#)

Examples

```
#### Creates Dataset by filtering 31 days from current date

NewsDataset1 = TOI_News_Articles(keywords = "Politics In US",
IsDate = TRUE,
start_date = Sys.Date()- 31,
end_date = Sys.Date())

# Creates Dataset by custom filtering through dates
NewsDataset2 = TOI_News_Articles(keywords = "BaseBall",
IsDate = TRUE,
start_date = "2019-09-20",
end_date = "2019-10-20")

# Write files to disk
TOI_News_Articles(keywords = "Goibibo", IsDataFrame = FALSE)
```

| | |
|------------------|--------------------------------|
| TOI_News_Dataset | <i>Creates Interim Dataset</i> |
|------------------|--------------------------------|

Description

Creates an interim news dataset based on user-defined keywords for all possible links extracted from respective source.

Usage

`TOI_News_Dataset(keywords)`

`TOI_News_Links(keywords)`

Arguments

`keywords` A String, user-defined.

Value

Returns DataFrame based on keywords

Functions

- `TOI_News_Links`: Extracts Source Links

Author(s)

Vatsal Aima, <vaima75@hotmail.com>

See Also

[TOI_News_Articles](#)

Examples

```
#### Creates Dataset based on keyword
```

```
NewsData = TOI_News_Dataset("Goibibo")
```

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