Package 'googlenlp'

October 13, 2022

Title An Interface to Google's Cloud Natural Language API Description Interact with Google's Cloud Natural Language API <pre></pre>
Description Interact with Google's Cloud Natural Language API
<https: cloud.google.com="" natural-language=""></https:> (v1) via R. The API has four main features, all of which are available through this R package: syntax analysis and part-of-speech tagging, entity analysis, sentiment analysis, and language identification. Version 0.2.0 License MIT + file LICENSE URL https://github.com/BrianWeinstein/googlenlp LazyData TRUE Imports dplyr, httr, jsonlite, purrr, readr, rlang RoxygenNote 6.0.1 Suggests testthat NeedsCompilation no
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analyze_entities

analyze_entities

Description

Send a request, and retrieve the entities and language responses. This function retrieves the results from the analyzeEntities method.

Usage

```
analyze_entities(text_body, flatten = TRUE)
```

Arguments

text_body The text string to send to the API.

flatten If TRUE (default), then the results of each method are flattened and converted to

a data frame.

Value

A list containing two elements: entities and language.

If flatten is TRUE, then the entities element is converted to a data frame.

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analyze_sentiment

Description

Send a request, and retrieve the documentSentiment and language responses. This function retrieves the results from the analyzeSentiment method.

Usage

```
analyze_sentiment(text_body, flatten = TRUE)
```

Arguments

text_body The text string to send to the API.

flatten If TRUE (default), then the results of each method are flattened and converted to

a data frame.

Value

A list containing two elements: documentSentiment and language.

If flatten is TRUE, then the documentSentiment element is converted to a data frame.

Examples

analyze_syntax

analyze_syntax

Description

Send a request, and retrieve the sentences, tokens, and language responses. This function retrieves the results from the analyzeSyntax method.

4 annotate_text

Usage

```
analyze_syntax(text_body, flatten = TRUE)
```

Arguments

text_body The text string to send to the API.

flatten If TRUE (default), then the results of each method are flattened and converted to

a data frame.

Value

A list containing three elements: sentences, tokens, and language.

If flatten is TRUE, then the sentences and tokens elements are each converted to data frames.

Examples

annotate_text

annotate_text

Description

Send a request, and retrieve the sentences, tokens, entities, documentSentiment, and language responses. This function calls the annotateText method, which performs the analyzeSyntax, analyzeEntities, and analyzeSentiment methods all within one API call.

Usage

```
annotate_text(text_body, flatten = TRUE)
```

Arguments

text_body The text string to send to the API.

flatten If TRUE (default), then the results of each method are flattened and converted to

a data frame.

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Value

A list containing five elements: sentences, tokens, entities, documentSentiment, and language. If flatten is TRUE, then the sentences, tokens, entities, and documentSentiment elements are each converted to data frames.

Examples

Description

Creates variables in your .Renviron file for use by other googlenlp functions. This will edit your .Renviron file only if you call this function directly. If you prefer not to change your .Renviron file, use the set_api_key function instead.

Natural Language API via R functions

Usage

```
configure_googlenlp()
```

Value

None

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

flatten_sentences

flatten_entities

Flatten entities

Description

Convert the JSON/list entities response into a flattened data frame.

Usage

```
flatten_entities(entities_list)
```

Arguments

entities_list The entities component of the API response.

Value

A flattened data frame.

Examples

flatten_sentences

Flatten sentences

Description

Convert the JSON/list sentences response into a flattened data frame.

Usage

```
flatten_sentences(sentences_list)
```

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Arguments

sentences_list The sentences component of the API response.

Value

A flattened data frame.

Examples

flatten_sentiment

Flatten sentiment

Description

Convert the JSON/list sentiment response into a flattened data frame.

Usage

```
flatten_sentiment(sentiment_list)
```

Arguments

 $\verb|sentiment_list| The sentiment component of the API response.$

Value

A flattened data frame.

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Examples

flatten_tokens

Flatten tokens

Description

Convert the JSON/list tokens response into a flattened data frame.

Usage

```
flatten_tokens(tokens_list)
```

Arguments

tokens_list The tokens component of the API response.

Value

A flattened data frame.

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gcnlp_key

Retrieve API key

Description

Retrieve API key

Usage

gcnlp_key()

Value

Your API key

Examples

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

gcnlp_post

Send a POST request to the Google Cloud Natural Language API

Description

Send a POST request to the Google Cloud Natural Language API and retrieve the results.

Usage

```
gcnlp_post(text_body, extract_syntax = TRUE, extract_entities = TRUE,
  extract_document_sentiment = TRUE)
```

Arguments

text_body The text string to send to the API.

extract_syntax Behavior for the analyzeSyntax method. Defaults to TRUE. See the API documentation for more information.

extract_entities

Behavior for the analyzeEntities method. Defaults to TRUE. See the API documentation for more information.

extract_document_sentiment

Behavior for the analyzeSentiment method. Defaults to TRUE. See the API documentation for more information.

get_config_file

Value

A list containing two elements: [1] content includes the parsed response, and contains the sentences, tokens, entities, documentSentiment, language results specified in the request. [2] raw_response contains the raw response from the API.

Examples

get_config_file

Fetch session-specific gcnlp default values

Description

```
get_config_file() gets the value of config_file
```

Usage

```
get_config_file()
```

Value

The path to the user's config_file

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

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set_api_key

Manually set access credentials

Description

Manually define an API key. Only use this function if you haven't run configure_googlenlp()

Usage

```
set_api_key(api_key)
```

Arguments

api_key

Your API key, from https://console.cloud.google.com/apis/credentials

Value

None

```
## Not run:
set_api_key("YOUR_API_KEY")
## End(Not run)
```

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