

Package ‘BERTopic’

November 1, 2025

Title What the Package Does (One Line, Title Case)

Version 0.0.0.9000

Description What the package does (one paragraph).

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Encoding UTF-8

Imports reticulate,
rlang,
tibble,

Suggests Matrix,
htmltools,
testthat (>= 3.1.0),

Roxygen list(markdown = TRUE)

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Depends R (>= 3.5)

LazyData true

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| as.data.frame.bertopic_r |
| <i>Coerce to data.frame</i> |

Description

Coerce to data.frame

Usage

```
## S3 method for class 'bertopic_r'  
as.data.frame(x, ...)
```

Arguments

- x A "bertopic_r" model.
- ... Unused.

Value

A data.frame equal to [bertopic_topics\(\)](#).

bertopic_as_document_topic_matrix

Coerce to a document-topic probability matrix

Description

Extract the document-topic probabilities as a matrix. If probabilities were not computed during fitting, returns NULL (with a warning).

Usage

```
bertopic_as_document_topic_matrix(model, sparse = TRUE, prefix = TRUE)
```

Arguments

| | |
|--------|--|
| model | A "bertopic_r" model. |
| sparse | Logical; if TRUE and Matrix is available, returns a sparse matrix. |
| prefix | Logical; if TRUE, prefix columns as "topic_". |

Value

A matrix or sparse Matrix of size n_docs x n_topics, or NULL.

bertopic_available *Is Python + BERTopic available?*

Description

Checks whether the active Python (as initialized by **reticulate**) can import the key modules needed for BERTopic.

Usage

```
bertopic_available()
```

Value

Logical scalar.

Examples

```
## Not run:
bertopic_available()

## End(Not run)
```

| | |
|----------------------|---|
| bertopic_find_topics | <i>Find nearest topics for a query string</i> |
|----------------------|---|

Description

Use `BERTopic.find_topics()` to retrieve the closest topics for a query string. Augments topic IDs/scores with topic labels when available.

Usage

```
bertopic_find_topics(model, query_text, top_n = 5L)
```

Arguments

| | |
|------------|-------------------------------------|
| model | A "bertopic_r" model. |
| query_text | A length-1 character query. |
| top_n | Number of nearest topics to return. |

Value

A tibble with columns topic, score, and label.

| | |
|--------------|----------------------------|
| bertopic_fit | <i>Fit BERTopic from R</i> |
|--------------|----------------------------|

Description

A high-level wrapper around Python 'BERTopic'. Python dependencies are checked at runtime.

Usage

```
bertopic_fit(text, embeddings = NULL, ...)
```

Arguments

| | |
|------------|--|
| text | Character vector of documents. |
| embeddings | Optional numeric matrix (n_docs x dim). If supplied, passed through to Python. |
| ... | Additional arguments forwarded to <code>bertopic.BERTopic(...)</code> . |

Value

An S3 object of class "bertopic_r" containing:

- `.py`: the underlying Python model (reticulate object)
- `topics`: integer vector of topic assignments
- `probs`: numeric matrix/data frame of topic probabilities (if available)

Examples

```
## Not run:
if (reticulate::py_module_available("bertopic")) {
  m <- bertopic_fit(c("a doc", "another doc"))
  print(class(m))
}

## End(Not run)
```

`bertopic_get_document_info`*Document-level information*

Description

Retrieve document-level information for the provided documents.

Usage

```
bertopic_get_document_info(model, docs)
```

Arguments

| | |
|--------------------|--|
| <code>model</code> | A "bertopic_r" model. |
| <code>docs</code> | Character vector of documents to query (required). |

Value

A tibble with document-level information.

`bertopic_get_representative_docs`*Representative documents for a topic*

Description

Retrieve representative documents for a given topic using `BERTopic.get_representative_docs()`. Falls back across signature variants.

Usage

```
bertopic_get_representative_docs(model, topic_id, top_n = 5L)
```

Arguments

| | |
|-----------------------|---|
| <code>model</code> | A "bertopic_r" model. |
| <code>topic_id</code> | Integer topic id. |
| <code>top_n</code> | Number of representative documents to return. |

Value

A tibble with columns rank and document. If scores are available in the current BERTopic version, a score column is included.

| |
|------------------------------|
| bertopic_has_embedding_model |
|------------------------------|

Does the model have a usable embedding model?

Description

Does the model have a usable embedding model?

Usage

```
bertopic_has_embedding_model(model)
```

Arguments

| | |
|-------|-----------------------|
| model | A "bertopic_r" model. |
|-------|-----------------------|

Value

Logical; TRUE if embedding_model is present and not None.

| | |
|---------------|------------------------------|
| bertopic_load | <i>Load a BERTopic model</i> |
|---------------|------------------------------|

Description

Load a BERTopic model from disk that was saved with [bertopic_save\(\)](#).

Usage

```
bertopic_load(path)
```

Arguments

| | |
|------|---|
| path | Path used in bertopic_save() (file or directory). |
|------|---|

Value

A "bertopic_r" object with the loaded Python model.

| | |
|------------------------|----------------------------|
| bertopic_reduce_topics | <i>Reduce/merge topics</i> |
|------------------------|----------------------------|

Description

Wrapper over Python reduce_topics, compatible with multiple signatures.

Usage

```
bertopic_reduce_topics(  
    model,  
    nr_topics = "auto",  
    representation_model = NULL,  
    docs = NULL  
)
```

Arguments

| | |
|----------------------|---|
| model | A "bertopic_r" model. |
| nr_topics | Target number (integer) or "auto". |
| representation_model | Optional Python representation model. |
| docs | Optional character vector of training docs (used if required by backend). |

Value

The input model (invisibly).

| | |
|---------------|------------------------------|
| bertopic_save | <i>Save a BERTopic model</i> |
|---------------|------------------------------|

Description

Save a fitted BERTopic model to disk. Depending on the serialization method, this may produce either a single file (e.g., *.pkl / *.pt / *.safetensors) or a directory bundle. The function does not pre-create the target path; it only ensures the parent directory exists and lets BERTopic decide the layout.

Usage

```
bertopic_save(  
    model,  
    path,  
    serialization = c("pickle", "safetensors", "pt"),  
    save_embedding_model = FALSE,  
    overwrite = FALSE  
)
```

Arguments

| | |
|-----------------------------------|---|
| <code>model</code> | A "bertopic_r" model. |
| <code>path</code> | Destination path (file or directory, as required by BERTopic). |
| <code>serialization</code> | One of "pickle", "safetensors", or "pt". Default "pickle". |
| <code>save_embedding_model</code> | Logical; whether to include the embedding model. Default FALSE. |
| <code>overwrite</code> | Logical; if TRUE and the target exists, it will be replaced. |

Value

Invisibly returns the normalized path.

| | |
|----------------------------------|--|
| <code>bertopic_self_check</code> | <i>Quick self-check for the BERTopic R interface</i> |
|----------------------------------|--|

Description

Runs a quick end-to-end smoke test:

- Report Python path/version.
- Verify that bertopic is importable and report its version.
- Minimal round trip: fit -> transform -> save -> load.

Usage

```
bertopic_self_check()
```

Value

A named list with fields:

python_ok Logical.

bertopic_ok Logical.

roundtrip_ok Logical.

details Character vector of diagnostic messages.

Examples

```
## Not run:
bertopic_self_check()

## End(Not run)
```

bertopic_session_info *Summarize Python/BERTopic session info*

Description

Summarize Python/BERTopic session info

Usage

```
bertopic_session_info()
```

Value

A named list containing paths, versions, and module availability:

python Path of the active Python.

libpython Path to libpython, if any.

version Python version string.

numpy Whether NumPy is available.

numpy_version NumPy version string (if available).

modules A data.frame with availability for key modules.

Examples

```
## Not run:
bertopic_session_info()

## End(Not run)
```

bertopic_set_embedding_model

Replace or set the embedding model

Description

Set a new embedding model on a fitted BERTopic instance. This enables transform() after loading when the embedding model was not saved.

Usage

```
bertopic_set_embedding_model(model, embedding_model)
```

Arguments

model A "bertopic_r" model.

embedding_model Either a character identifier (e.g., "all-MiniLM-L6-v2") or a Python embedding model object (e.g., a SentenceTransformer instance).

Value

The input model (invisibly).

| | |
|---------------------------|-----------------------|
| bertopic_set_topic_labels | <i>Relabel topics</i> |
|---------------------------|-----------------------|

Description

Set custom labels for topics. Accepts a named character vector or a data.frame with columns topic and label.

Usage

```
bertopic_set_topic_labels(model, labels)
```

Arguments

| | |
|--------|---|
| model | A "bertopic_r" model. |
| labels | A named character vector (names are topic ids) or a data.frame. |

Value

The input model (invisibly).

| | |
|-----------------|-----------------------------------|
| bertopic_topics | <i>Get topic info as a tibble</i> |
|-----------------|-----------------------------------|

Description

Get topic info as a tibble

Usage

```
bertopic_topics(model)
```

Arguments

| | |
|-------|--|
| model | A "bertopic_r" object returned by bertopic_fit() . |
|-------|--|

Value

A tibble with topic-level information from Python `get_topic_info()`.

```
bertopic_topics_over_time
```

Compute topics over time

Description

Wrapper for Python `BERTopic.topics_over_time()`. Returns a tibble and attaches the original Python dataframe in the `"_py"` attribute for use in visualization.

Usage

```
bertopic_topics_over_time(
  model,
  docs,
  timestamps,
  nr_bins = NULL,
  datetime_format = NULL
)
```

Arguments

| | |
|------------------------------|---|
| <code>model</code> | A "bertopic_r" model. |
| <code>docs</code> | Character vector of documents. |
| <code>timestamps</code> | A vector of timestamps (Date, POSIXt, or character). |
| <code>nr_bins</code> | Optional number of temporal bins. |
| <code>datetime_format</code> | Optional strftime-style format if timestamps are strings. |

Value

A tibble with topics-over-time data; attribute `"_py"` stores the original Python dataframe.

```
bertopic_topic_terms
```

Get top terms for a topic

Description

Get top terms for a topic

Usage

```
bertopic_topic_terms(model, topic_id, top_n = 10L)
```

Arguments

| | |
|-----------------------|-------------------------------|
| <code>model</code> | A "bertopic_r" model |
| <code>topic_id</code> | Integer topic id |
| <code>top_n</code> | Number of top terms to return |

Value

A tibble with columns term and weight

| | |
|--------------------|---|
| bertopic_transform | <i>Transform new documents with a fitted BERTopic model</i> |
|--------------------|---|

Description

Transform new documents with a fitted BERTopic model

Usage

```
bertopic_transform(model, new_text, embeddings = NULL)
```

Arguments

| | |
|------------|--|
| model | A "bertopic_r" model from bertopic_fit() . |
| new_text | Character vector of new documents. |
| embeddings | Optional numeric matrix for new documents. |

Value

A list with topics and probs for the new documents.

| | |
|------------------------|-------------------------------------|
| bertopic_update_topics | <i>Update topic representations</i> |
|------------------------|-------------------------------------|

Description

Call Python BERTopic.update_topics() to recompute topic representations.

Usage

```
bertopic_update_topics(model, text)
```

Arguments

| | |
|-------|---|
| model | A "bertopic_r" model. |
| text | Character vector of training documents used in fit. |

Value

The input model (invisibly), updated in place on the Python side.

bertopic_visualize_barchart
Visualize a topic barchart

Description

Visualize a topic barchart

Usage

```
bertopic_visualize_barchart(model, topic_id = NULL, file = NULL)
```

Arguments

| | |
|----------|--|
| model | A "bertopic_r" model. |
| topic_id | Integer topic id. If NULL, a set of top topics is shown. |
| file | Optional HTML output path. |

bertopic_visualize_documents
Visualize embedded documents

Description

Visualize embedded documents

Usage

```
bertopic_visualize_documents(model, docs = NULL, file = NULL)
```

Arguments

| | |
|-------|--|
| model | A "bertopic_r" model. |
| docs | Optional character vector of documents to visualize. |
| file | Optional HTML output path. |

`bertopic_visualize_heatmap`*Visualize topic similarity heatmap*

Description

Visualize topic similarity heatmap

Usage

```
bertopic_visualize_heatmap(model, file = NULL)
```

Arguments

| | |
|--------------------|----------------------------|
| <code>model</code> | A "bertopic_r" model. |
| <code>file</code> | Optional HTML output path. |

`bertopic_visualize_hierarchy`*Visualize hierarchical clustering of topics*

Description

Visualize hierarchical clustering of topics

Usage

```
bertopic_visualize_hierarchy(model, file = NULL)
```

Arguments

| | |
|--------------------|----------------------------|
| <code>model</code> | A "bertopic_r" model. |
| <code>file</code> | Optional HTML output path. |

`bertopic_visualize_term_rank`*Visualize term rank evolution*

Description

Visualize term rank evolution

Usage

```
bertopic_visualize_term_rank(model, file = NULL)
```

Arguments

| | |
|--------------------|----------------------------|
| <code>model</code> | A "bertopic_r" model. |
| <code>file</code> | Optional HTML output path. |

bertopic_visualize_topics
Visualize topic map

Description

Visualize topic map

Usage

```
bertopic_visualize_topics(model, file = NULL)
```

Arguments

| | |
|-------|--|
| model | A "bertopic_r" model. |
| file | Optional HTML output path. If NULL, returns htmltools::HTML. |

bertopic_visualize_topics_over_time
Visualize topics over time

Description

Visualize topics over time

Usage

```
bertopic_visualize_topics_over_time(  
  model,  
  topics_over_time,  
  top_n = 10L,  
  file = NULL  
)
```

Arguments

| | |
|------------------|---|
| model | A "bertopic_r" model. |
| topics_over_time | A tibble returned by bertopic_topics_over_time() , or a Python dataframe compatible with visualize_topics_over_time() . |
| top_n | Number of topics to display. |
| file | Optional HTML output path. |

| | |
|-----------------|--|
| coef.bertopic_r | <i>Coefficients (top terms) for BERTopic</i> |
|-----------------|--|

Description

Coefficients (top terms) for BERTopic

Usage

```
## S3 method for class 'bertopic_r'  
coef(object, top_n = 10L, ...)
```

Arguments

| | |
|--------|----------------------------|
| object | A "bertopic_r" model. |
| top_n | Number of terms per topic. |
| ... | Unused. |

Value

A data.frame with columns topic, term, weight.

| | |
|--------------------|-----------------------------------|
| fortify.bertopic_r | <i>Fortify method for ggplot2</i> |
|--------------------|-----------------------------------|

Description

Fortify method for ggplot2

Usage

```
fortify.bertopic_r(model, data, ...)
```

Arguments

| | |
|-------|-----------------------|
| model | A "bertopic_r" model. |
| data | Ignored. |
| ... | Unused. |

Value

A data.frame of document-topic assignments.

| | |
|-----------------|--|
| install_py_deps | <i>Install Python dependencies for BERTopic (auto route)</i> |
|-----------------|--|

Description

Tries Conda first (recommended). If Conda is unavailable, falls back to virtualenv. On success, prints which route was used.

Usage

```
install_py_deps(
    envname = "r-bertopic",
    python_version = "3.10",
    python = NULL,
    reinstall = FALSE,
    validate = TRUE,
    verbose = TRUE
)
```

Arguments

| | |
|----------------|--|
| envname | Character. Environment name (both routes). Default "r-bertopic". |
| python_version | Character. Python version for Conda route, e.g. "3.10". |
| python | Optional path to python for virtualenv route. |
| reinstall | Logical. Recreate the environment if it exists (route-specific). |
| validate | Logical. Attempt to validate imports if reticulate is not already initialized to another Python. |
| verbose | Logical. Print progress. |

Value

Invisibly, the path to the selected Python interpreter.

| | |
|-----------------------|---|
| install_py_deps_conda | <i>Install Python dependencies for BERTopic (Conda route)</i> |
|-----------------------|---|

Description

Creates (or reuses) a Conda environment with a pinned Python toolchain, installs the scientific stack + PyTorch (CPU) + sentence-transformers, then installs bertopic==0.16.0 via pip. Optionally validates imports.

Usage

```
install_py_deps_conda(
    envname = "r-bertopic",
    python_version = "3.10",
    reinstall = FALSE,
    validate = TRUE,
    verbose = TRUE
)
```

Arguments

| | |
|----------------|---|
| envname | Character. Conda environment name. Default "r-bertopic". |
| python_version | Character. Python version to use, e.g. "3.10". |
| reinstall | Logical. If TRUE, delete any existing env and recreate. |
| validate | Logical. If TRUE, bind and validate imports (will skip if reticulate is already initialized to another Python). |
| verbose | Logical. Print progress messages. |

Value

Invisibly returns the path to the Python executable inside the env.

Examples

```
## Not run:
install_py_deps_conda(envname = "r-bertopic", python_version = "3.10")

## End(Not run)
```

install_py_deps_venv *Install Python dependencies for BERTopic (virtualenv route)*

Description

Creates (or reuses) a virtualenv and installs bertopic==0.16.0 plus required dependencies via pip. Optionally validates imports.

Usage

```
install_py_deps_venv(
  envname = "r-bertopic",
  python = NULL,
  reinstall = FALSE,
  validate = TRUE,
  verbose = TRUE
)
```

Arguments

| | |
|-----------|--|
| envname | Character. Virtualenv name. Default "r-bertopic". |
| python | Character. Path to a Python executable to create the venv with. If NULL, tries to find python / python3 on PATH. |
| reinstall | Logical. If TRUE, delete existing venv and recreate. |
| validate | Logical. If TRUE, bind and validate imports (will skip if reticulate is already initialized to another Python). |
| verbose | Logical. Print progress messages. |

Value

Invisibly returns the path to the Python executable inside the venv.

Examples

```
## Not run:
install_py_deps_venv(envname = "r-bertopic")

## End(Not run)
```

| | |
|--------------------|---|
| predict.bertopic_r | <i>Predict method for BERTopic models</i> |
|--------------------|---|

Description

Predict method for BERTopic models

Usage

```
## S3 method for class 'bertopic_r'
predict(
  object,
  newdata,
  type = c("both", "class", "prob"),
  embeddings = NULL,
  ...
)
```

Arguments

| | |
|------------|--|
| object | A "bertopic_r" model. |
| newdata | Character vector of new documents. |
| type | One of "class", "prob", or "both". |
| embeddings | Optional numeric matrix of embeddings. |
| ... | Reserved for future arguments. |

Value

Depending on type, an integer vector, a matrix/data frame, or a list.

| | |
|------------------|------------------------------------|
| print.bertopic_r | <i>Print method for bertopic_r</i> |
|------------------|------------------------------------|

Description

Print method for bertopic_r

Usage

```
## S3 method for class 'bertopic_r'
print(x, ...)
```

Arguments

| | |
|-----|------------------------|
| x | A "bertopic_r" object. |
| ... | Unused. |

| | |
|-------------------|--|
| set_bertopic_seed | <i>Set random seed for R and Python backends</i> |
|-------------------|--|

Description

Set random seed for R and Python backends

Usage

```
set_bertopic_seed(seed)
```

Arguments

| | |
|------|--------------|
| seed | Integer seed |
|------|--------------|

| | |
|----------|--|
| sms_spam | <i>SMS Spam Collection (UCI) - subset for examples</i> |
|----------|--|

Description

A cleaned subset of the UCI SMS Spam Collection, suitable for quick examples and tests in this package. Each row is an SMS message labeled as "ham" or "spam".

Usage

```
sms_spam
```

Format

A data frame with two columns:

label Character, either "ham" or "spam".

text Character, the SMS message content (UTF-8).

Note

This dataset is included for educational/demo purposes. If you use it in publications, please cite the original authors and the UCI repository page.

Source

UCI Machine Learning Repository: SMS Spam Collection. Dataset page: <https://archive.ics.uci.edu/dataset/228/sms+spam+collection> Original citation: Almeida, T.A., Hidalgo, J.M.G., & Yamakami, A. (2011). Contributions to the Study of SMS Spam Filtering: New Collection and Results.

Examples

```
data(sms_spam)
head(sms_spam)
```

| | |
|--------------------|------------------------------------|
| summary.bertopic_r | <i>Summary for BERTopic models</i> |
|--------------------|------------------------------------|

Description

Summary for BERTopic models

Usage

```
## S3 method for class 'bertopic_r'
summary(object, ...)
```

Arguments

| | |
|--------|-----------------------|
| object | A "bertopic_r" model. |
| ... | Unused. |

Value

Invisibly returns a named list of summary fields.

| | |
|--------------|--|
| use_bertopic | <i>Bind current R session to the BERTopic environment (auto route)</i> |
|--------------|--|

Description

If a Conda env with the given name exists, prefer Conda; otherwise try a virtualenv with the same name. Stops if neither exists.

Usage

```
use_bertopic(envname = "r-bertopic")
```

Arguments

| | |
|---------|--|
| envname | Character. Environment name. Default "r-bertopic". |
|---------|--|

Value

Invisibly, the Python executable path.

use_bertopic_condaenv *Bind current R session to a BERTopic Conda environment*

Description

Sets RETICULATE_PYTHON to the environment's Python and initializes **reticulate**. If **reticulate** is already initialized to a different Python, this stops with an informative error.

Usage

```
use_bertopic_condaenv(envname = "r-bertopic", required = TRUE)
```

Arguments

| | |
|----------|---|
| envname | Character. Conda env name (default "r-bertopic"). |
| required | Logical. Kept for API symmetry; unused. |

Value

Invisibly returns the Python executable path in the env.

Examples

```
## Not run:
use_bertopic_condaenv("r-bertopic")

## End(Not run)
```

use_bertopic_virtualenv
Bind current R session to a BERTopic virtualenv

Description

Sets RETICULATE_PYTHON to the Python inside the given virtualenv and initializes **reticulate**. If **reticulate** is already initialized to a different Python, this stops with an informative error.

Usage

```
use_bertopic_virtualenv(envname = "r-bertopic", required = TRUE)
```

Arguments

| | |
|----------|--|
| envname | Character. Virtualenv name (default "r-bertopic"). |
| required | Logical. Kept for API symmetry; unused. |

Value

Invisibly returns the Python executable path in the venv.

Examples

```
## Not run:  
use_bertopic_virtualenv("r-bertopic")  
  
## End(Not run)
```

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