
Antispam

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Antispam is a bayesian anti-spam classifier written in Python.

CHAPTER 1

Installation

```
pip install antisipam
```


CHAPTER 2

Usage

Use the built-in model provided & trained by author:

```
import antispam

antispam.score("Cheap shoes for sale at DSW shoe store!")
# => 0.9657724517163143

antispam.is_spam("Cheap shoes for sale at DSW shoe store!")
# => True

antispam.score("Hi mark could you please send me a copy of your machine learning_
↪homework? thanks")
# => 0.0008064840568731558

antispam.is_spam("Hi mark could you please send me a copy of your machine learning_
↪homework? thanks")
# => False
```


3.1 API

`antispam.score(msg)`

Score the message based on the built-in model.

Parameters `msg` – Message to be scored in string format.

`antispam.is_spam(msg)`

Decide whether the message is a spam or not based on the built-in model.

Parameters `msg` – Message to be classified in string format.

3.1.1 antispam.Model

class `antispam.Model` (*file_path=None, create_new=False*)

Save & Load the model in/from the file system using Python's json module.

Constructs a Model object by the indicated `file_path`, if the file does not exist, create a new file and construct a empty model.

Parameters

- **file_path** – (optional) Path for the model file indicated, if path is not indicated, use the built-in model file provided by the author, which is located in the `antispam` package folder.
- **create_new** – (option) Boolean. If `True`, create an empty model. `file_path` will be used when saving the model. If there is an existing model file on the path, the existing model file will be overwritten.

load (*file_path=None*)

Load the serialized file from the specified `file_path`, and return `spam_count_total`, `ham_count_total` and `token_table`.

Parameters `file_path` – (optional) Path for the model file. If the path does not exist, create a new one.

save()

Serialize the model using Python's json module, and save the serialized model as a file which is indicated by `self.file_path`.

3.1.2 antispam.Detector

class `antispam.Detector` (*path=None, create_new=False*)

A bayesian spam filter

Parameters `path` – (optional) Path for the model file, will be passed to `Model` and construct a `Model` object based on `path`.

train (*msg, is_spam*)

Train the model.

Parameters

- **msg** – Message in string format.
- **is_spam** – Boolean. If True, train the message as a spam, if False, train the message as a ham.

score (*msg*)

Calculate and return the spam score of a msg. The higher the score, the stronger the likelihood that the msg is a spam is.

Parameters `msg` – Message in string format.

save()

Save `self.model` based on `self.model.file_path`.

CHAPTER 4

LICENSE

MIT License

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