# Chapter\_8\_Applying\_Machine\_Learning\_to\_Sentiment\_Analysis

# March 19, 2024

```
[1]: # ! pip install PyPrind
[4]: import pyprind
     import pandas as pd
     import os
     # change the `basepath` to the directory of the
     # unzipped movie dataset
     basepath = 'aclImdb'
[]: labels = {'pos': 1, 'neg': 0}
[]: pbar = pyprind.ProgBar(50000)
     df = pd.DataFrame()
[]: for s in ('test', 'train'):
         for l in ('pos', 'neg'):
             path = os.path.join(basepath, s, 1)
             for file in os.listdir(path):
                 with open(os.path.join(path, file), 'r', encoding='utf-8') as infile:
                     txt = infile.read()
                 df = df.append([[txt, labels[1]]],ignore_index=True)
                 pbar.update()
[]: df.columns = ['review', 'sentiment']
[]: import numpy as np
     np.random.seed(0)
     df = df.reindex(np.random.permutation(df.index))
     df.to_csv('movie_data.csv', index=False, encoding='utf-8')
[5]: df = pd.read_csv('movie_data.csv', encoding='utf-8')
     df.head(3)
[5]:
                                                    review sentiment
     O In 1974, the teenager Martha Moxley (Maggie Gr...
                                                                  1
     1 OK... so... I really like Kris Kristofferson a...
                                                              0
```

```
2 ***SPOILER*** Do not read this, if you think a...
```

# 0.1 Introducing the bag-of-words model

```
[10]: import numpy as np
      from sklearn.feature extraction.text import CountVectorizer
      count = CountVectorizer()
      docs = np.array(['The sun is shining','The weather is sweet','The sun is⊔
       ⇒shining and the weather is sweet'])
      bag = count.fit transform(docs)
[11]: # it is only creating a dictionary and in this word is maaped to an index which
      ⇔means in dictionary
      # sequence is: [and, is, shining, sun, sweet, the, weather]
      print(count.vocabulary_)
     {'the': 5, 'sun': 3, 'is': 1, 'shining': 2, 'weather': 6, 'sweet': 4, 'and': 0}
[12]: print(bag.toarray()) # it creates a feature vector for the dictionary and
      ⇔values here represents a count.
      # 0111010 means in first document, "and" comes 0 times, "is" comes 1 times,
       ⇒"shining" comes 1 time and so on
     [[0 1 1 1 0 1 0]
      [0 1 0 0 1 1 1]
      [1 2 1 1 1 2 1]]
[13]: # These values
      # in the feature vectors are also called the raw term frequencies: tf (t,d)-
      the number
      # of times a term t occurs in a document d.
```

## 0.2 Assessing word relevancy via term frequency-inverse document frequency

## 0.3 Cleaning text data

```
[15]: df.loc[0, 'review'][-50:]
```

[15]: 'is seven. <br />Title (Brazil): Not Available'

```
[16]: import re
      def preprocessor(text):
          text = re.sub('<[^>]*>', '', text)
          emoticons = re.findall((?::|;|=)(?:-)?(?:\)|\(|D|P)',text)
          text = (re.sub('[\W]+', ' ', text.lower()) +' '.join(emoticons).
       →replace('-', ''))
          return text
[17]: preprocessor(df.loc[0, 'review'][-50:])
[17]: 'is seven title brazil not available'
[18]: preprocessor("</a>This :) is :( a test :-)!")
[18]: 'this is a test :) :( :)'
[19]: df['review'] = df['review'].apply(preprocessor)
     0.4 Processing documents into tokens
[20]: def tokenizer(text):
          return text.split()
[21]: tokenizer('runners like running and thus they run')
[21]: ['runners', 'like', 'running', 'and', 'thus', 'they', 'run']
[22]: # ! pip install nltk
[23]: from nltk.stem.porter import PorterStemmer
      porter = PorterStemmer()
      def tokenizer porter(text):
          return [porter.stem(word) for word in text.split()]
      tokenizer_porter('runners like running and thus they run')
[23]: ['runner', 'like', 'run', 'and', 'thu', 'they', 'run']
[24]: import nltk
      nltk.download('stopwords')
     [nltk_data] Downloading package stopwords to
     [nltk_data]
                     C:\Users\ankit19.gupta\AppData\Roaming\nltk_data...
     [nltk_data]
                   Package stopwords is already up-to-date!
[24]: True
[25]: from nltk.corpus import stopwords
      stop = stopwords.words('english')
```

```
[w for w in tokenizer_porter('a runner likes running and runs a lot')[-10:] if⊔

→w not in stop]
```

```
[25]: ['runner', 'like', 'run', 'run', 'lot']
```

## 0.5 Training a logistic regression model for document classification

```
[26]: X_train = df.loc[:25000, 'review'].values
    y_train = df.loc[:25000, 'sentiment'].values
    X_test = df.loc[25000:, 'review'].values
    y_test = df.loc[25000:, 'sentiment'].values

[]: from sklearn.model_selection import GridSearchCV
    from sklearn.pipeline import Pipeline

from sklearn.pipeline import LoristicPorression
```

Fitting 5 folds for each of 48 candidates, totalling 240 fits

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File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py", line 598, in \_fit\_and\_score estimator.fit(X\_train, y\_train, \*\*fit\_params)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

```
self._final_estimator.fit(Xt, y, **fit_params_last_step)
```

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

solver = \_check\_solver(self.solver, self.penalty, self.dual)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 444, in \_check\_solver "got %s penalty." % (solver, penalty))

ValueError: Solver lbfgs supports only '12' or 'none' penalties, got 11 penalty.

#### FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

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File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

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"got %s penalty." % (solver, penalty))

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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

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File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des

ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

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solver = check solver(self.solver, self.penalty, self.dual)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 444, in \_check\_solver

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self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

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self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

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solver = \_check\_solver(self.solver, self.penalty, self.dual)

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#### FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be

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 File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des
ktop\Self_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\model selection\ validation.py", line 598, in fit and score
    estimator.fit(X_train, y_train, **fit_params)
 File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des
ktop\Self_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\pipeline.py", line 346, in fit
    self._final_estimator.fit(Xt, y, **fit_params_last_step)
 File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des
ktop\Self_Projects\Python_Machine Learning Sebastian Raschka\myenv\lib\site-
packages\sklearn\linear_model\_logistic.py", line 1306, in fit
    solver = _check_solver(self.solver, self.penalty, self.dual)
 File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des
ktop\Self_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\linear_model\_logistic.py", line 444, in _check_solver
    "got %s penalty." % (solver, penalty))
ValueError: Solver lbfgs supports only '12' or 'none' penalties, got 11 penalty.
 FitFailedWarning)
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\model_selection\_validation.py:619: FitFailedWarning: Estimator
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 File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des
ktop\Self_Projects\Python_Machine Learning Sebastian Raschka\myenv\lib\site-
packages\sklearn\model_selection\_validation.py", line 598, in _fit_and_score
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 File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des
ktop\Self_Projects\Python_Machine Learning Sebastian Raschka\myenv\lib\site-
packages\sklearn\pipeline.py", line 346, in fit
    self. final estimator.fit(Xt, y, **fit params last step)
 File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des
ktop\Self_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\linear_model\_logistic.py", line 1306, in fit
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ktop\Self_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\linear model\ logistic.py", line 444, in _check_solver
    "got %s penalty." % (solver, penalty))
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```

## FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-

```
packages\sklearn\feature_extraction\text.py:391: UserWarning: Your stop_words
may be inconsistent with your preprocessing. Tokenizing the stop words generated
tokens ['abov', 'ani', 'becaus', 'befor', 'doe', 'dure', 'ha', 'hi', "it'",
'onc', 'onli', 'ourselv', "she'", "should'v", 'themselv', 'thi', 'veri', 'wa',
'whi', "you'r", "you'v", 'yourselv'] not in stop words.
  'stop_words.' % sorted(inconsistent))
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\feature extraction\text.py:391: UserWarning: Your stop words
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  'stop_words.' % sorted(inconsistent))
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
packages\sklearn\feature_extraction\text.py:391: UserWarning: Your stop_words
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  'stop words.' % sorted(inconsistent))
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f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
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  'stop_words.' % sorted(inconsistent))
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\model selection\ validation.py:619: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
Traceback (most recent call last):
  File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des
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ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py", line 598, in \_fit\_and\_score

estimator.fit(X\_train, y\_train, \*\*fit\_params)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

solver = \_check\_solver(self.solver, self.penalty, self.dual)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 444, in \_check\_solver

"got %s penalty." % (solver, penalty))

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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

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Traceback (most recent call last):

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File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

solver = \_check\_solver(self.solver, self.penalty, self.dual)

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ValueError: Solver lbfgs supports only '12' or 'none' penalties, got 11 penalty.

# FitFailedWarning)

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File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py", line 598, in \_fit\_and\_score estimator.fit(X\_train, y\_train, \*\*fit\_params)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

solver = \_check\_solver(self.solver, self.penalty, self.dual)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 444, in \_check\_solver "got %s penalty." % (solver, penalty))

ValueError: Solver lbfgs supports only '12' or 'none' penalties, got 11 penalty.

#### FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

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f_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\feature_extraction\text.py:391: UserWarning: Your stop_words
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  'stop_words.' % sorted(inconsistent))
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\sitepackages\sklearn\linear\_model\\_logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT. Increase the number of iterations (max iter) or scale the data as shown in: https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options: https://scikit-learn.org/stable/modules/linear\_model.html#logisticregression extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG) C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\sitepackages\sklearn\linear\_model\\_logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT. Increase the number of iterations (max\_iter) or scale the data as shown in: https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options: https://scikit-learn.org/stable/modules/linear\_model.html#logisticregression extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG) C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\sitepackages\sklearn\linear\_model\\_logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT. Increase the number of iterations (max\_iter) or scale the data as shown in: https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options: https://scikit-learn.org/stable/modules/linear\_model.html#logisticextra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG) C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\sitepackages\sklearn\linear\_model\\_logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT. Increase the number of iterations (max\_iter) or scale the data as shown in: https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options: https://scikit-learn.org/stable/modules/linear\_model.html#logisticregression extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG)

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https://scikit-learn.org/stable/modules/linear\_model.html#logistic-regression

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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

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File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py", line 598, in \_fit\_and\_score estimator.fit(X\_train, y\_train, \*\*fit\_params)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

solver = \_check\_solver(self.solver, self.penalty, self.dual)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 444, in \_check\_solver

"got %s penalty." % (solver, penalty))

ValueError: Solver lbfgs supports only '12' or 'none' penalties, got 11 penalty.

## FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

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ktop\Self_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\model_selection\_validation.py", line 598, in _fit_and_score
    estimator.fit(X_train, y_train, **fit_params)
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ktop\Self Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
packages\sklearn\pipeline.py", line 346, in fit
    self._final_estimator.fit(Xt, y, **fit_params_last_step)
  \begin{tabular}{ll} File & "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des \\ \end{tabular} 
ktop\Self_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
packages\sklearn\linear_model\_logistic.py", line 1306, in fit
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packages\sklearn\linear model\ logistic.py", line 444, in _check_solver
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f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
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  'stop_words.' % sorted(inconsistent))
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packages\sklearn\model_selection\_validation.py", line 598, in _fit_and_score
    estimator.fit(X_train, y_train, **fit_params)
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f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

Traceback (most recent call last):

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py", line 598, in \_fit\_and\_score estimator.fit(X\_train, y\_train, \*\*fit\_params)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

solver = \_check\_solver(self.solver, self.penalty, self.dual)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 444, in \_check\_solver "got %s penalty." % (solver, penalty))

ValueError: Solver lbfgs supports only '12' or 'none' penalties, got 11 penalty.

## FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

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### FitFailedWarning)

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f_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
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   https://scikit-learn.org/stable/modules/linear_model.html#logistic-
regression
  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)
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f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
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  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
packages\sklearn\feature_extraction\text.py:391: UserWarning: Your stop_words
may be inconsistent with your preprocessing. Tokenizing the stop words generated
tokens ['abov', 'ani', 'becaus', 'befor', 'doe', 'dure', 'ha', 'hi', "it'",
'onc', 'onli', 'ourselv', "she'", "should'v", 'themselv', 'thi', 'veri', 'wa',
'whi', "you'r", "you'v", 'yourselv'] not in stop_words.
  'stop_words.' % sorted(inconsistent))
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
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  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
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  'stop_words.' % sorted(inconsistent))
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
packages\sklearn\linear_model\_logistic.py:765: ConvergenceWarning: lbfgs failed
to converge (status=1):
```

```
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
```

Increase the number of iterations (max\_iter) or scale the data as shown in:
 https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
 https://scikit-learn.org/stable/modules/linear\_model.html#logistic-regression

extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\feature\_extraction\text.py:391: UserWarning: Your stop\_words may be inconsistent with your preprocessing. Tokenizing the stop words generated tokens ['abov', 'ani', 'becaus', 'befor', 'doe', 'dure', 'ha', 'hi', "it'", 'onc', 'onli', 'ourselv', "she'", "should'v", 'themselv', 'thi', 'veri', 'wa', 'whi', "you'r", "you'v", 'yourselv'] not in stop\_words.

'stop\_words.' % sorted(inconsistent))

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1):

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extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG)
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\sitepackages\sklearn\feature\_extraction\text.py:391: UserWarning: Your stop\_words
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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1):

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packages\sklearn\feature\_extraction\text.py:391: UserWarning: Your stop\_words may be inconsistent with your preprocessing. Tokenizing the stop words generated tokens ['abov', 'ani', 'becaus', 'befor', 'doe', 'dure', 'ha', 'hi', "it'", 'onc', 'onli', 'ourselv', "she'", "should'v", 'themselv', 'thi', 'veri', 'wa', 'whi', "you'r", "you'v", 'yourselv'] not in stop\_words. 'stop\_words.' % sorted(inconsistent)) C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\sitepackages\sklearn\linear model\ logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT. Increase the number of iterations (max\_iter) or scale the data as shown in: https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options: https://scikit-learn.org/stable/modules/linear\_model.html#logisticregression extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG) C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\sitepackages\sklearn\linear\_model\\_logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT. Increase the number of iterations (max\_iter) or scale the data as shown in: https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options: https://scikit-learn.org/stable/modules/linear\_model.html#logisticregression extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG) C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\sitepackages\sklearn\linear\_model\\_logistic.py:765: ConvergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT. Increase the number of iterations (max\_iter) or scale the data as shown in: https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options: https://scikit-learn.org/stable/modules/linear\_model.html#logisticregression extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG) C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\sitepackages\sklearn\linear model\ logistic.py:765: ConvergenceWarning: lbfgs failed

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel

f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-

extra\_warning\_msg=\_LOGISTIC\_SOLVER\_CONVERGENCE\_MSG)

```
to converge (status=1):
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  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)
C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
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f_Projects\Python_Machine_Learning_Sebastian_Raschka\myenv\lib\site-
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```

packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

Traceback (most recent call last):

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py", line 598, in \_fit\_and\_score estimator.fit(X\_train, y\_train, \*\*fit\_params)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

solver = \_check\_solver(self.solver, self.penalty, self.dual)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 444, in \_check\_solver "got %s penalty." % (solver, penalty))

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#### FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

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self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 1306, in fit

solver = \_check\_solver(self.solver, self.penalty, self.dual)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\linear\_model\\_logistic.py", line 444, in \_check\_solver

"got %s penalty." % (solver, penalty))

ValueError: Solver lbfgs supports only '12' or 'none' penalties, got 11 penalty.

# FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

Traceback (most recent call last):

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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\feature\_extraction\text.py:391: UserWarning: Your stop\_words may be inconsistent with your preprocessing. Tokenizing the stop words generated tokens ['abov', 'ani', 'becaus', 'befor', 'doe', 'dure', 'ha', 'hi', "it'", 'onc', 'onli', 'ourselv', "she'", "should'v", 'themselv', 'thi', 'veri', 'wa', 'whi', "you'r", "you'v", 'yourselv'] not in stop\_words.

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C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel
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ValueError: Solver lbfgs supports only '12' or 'none' penalties, got 11 penalty.

### FitFailedWarning)

C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Desktop\Sel f\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\model\_selection\\_validation.py:619: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

Traceback (most recent call last):

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File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-packages\sklearn\pipeline.py", line 346, in fit

self.\_final\_estimator.fit(Xt, y, \*\*fit\_params\_last\_step)

File "C:\Users\ankit19.gupta\OneDrive - Reliance Corporate IT Park Limited\Des ktop\Self\_Projects\Python\_Machine\_Learning\_Sebastian\_Raschka\myenv\lib\site-

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    estimator.fit(X_train, y_train, **fit_params)
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packages\sklearn\linear_model\_logistic.py:765: ConvergenceWarning: lbfgs failed
to converge (status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
Increase the number of iterations (max iter) or scale the data as shown in:
   https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
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  extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)
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https://scikit-learn.org/stable/modules/linear\_model.html#logistic-

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f Projects\Python Machine Learning Sebastian Raschka\myenv\lib\site-
packages\sklearn\feature_extraction\text.py:391: UserWarning: Your stop_words
may be inconsistent with your preprocessing. Tokenizing the stop words generated
tokens ['abov', 'ani', 'becaus', 'befor', 'doe', 'dure', 'ha', 'hi', "it'",
'onc', 'onli', 'ourselv', "she'", "should'v", 'themselv', 'thi', 'veri', 'wa',
'whi', "you'r", "you'v", 'yourselv'] not in stop_words.
  'stop_words.' % sorted(inconsistent))
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```
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    'whi', "you'r", "you'v", 'yourselv'] not in stop_words.
      'stop_words.' % sorted(inconsistent))
[]: print('Best parameter set: %s ' % gs_lr_tfidf.best_params_)
[]: print('CV Accuracy: %.3f' % gs_lr_tfidf.best_score_)
[]: clf = gs_lr_tfidf.best_estimator_
[]: print('Test Accuracy: %.3f' % clf.score(X_test, y_test))
```

## 0.6 Working with Bigger data - online algorithms and out-of-core learning

```
[6]: import numpy as np
import re
from nltk.corpus import stopwords
stop = stopwords.words('english')
def tokenizer(text):
    text = re.sub('<[^>]*>', '', text)
    emoticons = re.findall('(?::|;|=)(?:-)?(?:\)|\(|D|P)',text.lower())
    text = re.sub('[\W]+', ' ', text.lower()) \
    + ' '.join(emoticons).replace('-', '')
    tokenized = [w for w in text.split() if w not in stop]
    return tokenized
```

```
[7]: def stream_docs(path):
    with open(path, 'r', encoding='utf-8') as csv:
        next(csv) # skip header
    for line in csv:
        text, label = line[:-3], int(line[-2])
        yield text, label
```

```
[8]: next(stream_docs(path='movie_data.csv'))
```

[8]: ('"In 1974, the teenager Martha Moxley (Maggie Grace) moves to the high-class area of Belle Haven, Greenwich, Connecticut. On the Mischief Night, eve of Halloween, she was murdered in the backyard of her house and her murder remained unsolved. Twenty-two years later, the writer Mark Fuhrman (Christopher Meloni), who is a former LA detective that has fallen in disgrace for perjury in O.J. Simpson trial and moved to Idaho, decides to investigate the case with his partner Stephen Weeks (Andrew Mitchell) with the purpose of writing a book. The locals squirm and do not welcome them, but with the support of the retired detective Steve Carroll (Robert Forster) that was in charge of the investigation in the 70\'s, they discover the criminal and a net of power and money to cover the murder. <br /><br />""Murder in Greenwich"" is a good TV movie, with the true story of a murder of a fifteen years old girl that was committed by a wealthy teenager whose mother was a Kennedy. The powerful and rich family used their influence to cover the murder for more than twenty years. However, a snoopy detective and convicted perjurer in disgrace was able to disclose how the hideous crime was committed. The screenplay shows the investigation of Mark and the last days of Martha in parallel, but there is a lack of the emotion in the dramatization. My vote is seven. <br /> Title (Brazil): Not Available"', 1)

```
[9]: def get_minibatch(doc_stream, size):
    docs, y = [], []
    try:
        for _ in range(size):
            text, label = next(doc_stream)
            docs.append(text)
```

```
y.append(label)
          except StopIteration:
              return None, None
         return docs, y
[11]: from sklearn.feature_extraction.text import HashingVectorizer
      from sklearn.linear_model import SGDClassifier
      vect =
       -HashingVectorizer(decode_error='ignore',n_features=2**21,preprocessor=None,tokenizer=tokeni
      clf = SGDClassifier(loss='log', random_state=1, max_iter=1)
      doc_stream = stream_docs(path='movie_data.csv')
[12]: import pyprind
      pbar = pyprind.ProgBar(45)
      classes = np.array([0, 1])
      for _ in range(45):
         X_train, y_train = get_minibatch(doc_stream, size=1000)
          if not X train:
             break
         X train = vect.transform(X train)
          clf.partial_fit(X_train, y_train, classes=classes)
         pbar.update()
     0% [#################### 100% | ETA: 00:00:00
     Total time elapsed: 00:00:19
[13]: X_test, y_test = get_minibatch(doc_stream, size=5000)
      X_test = vect.transform(X_test)
      print('Accuracy: %.3f' % clf.score(X_test, y_test))
     Accuracy: 0.868
[14]: clf = clf.partial_fit(X_test, y_test)
     0.7 Topic modeling with Latent Dirichlet Allocation
     0.7.1 Decomposing text documents with LDA
[15]: import pandas as pd
      df = pd.read_csv('movie_data.csv', encoding='utf-8')
[16]: from sklearn.feature_extraction.text import CountVectorizer
      count = CountVectorizer(stop_words='english',max_df=.1,max_features=5000)
      X = count.fit_transform(df['review'].values)
[20]: from sklearn.decomposition import LatentDirichletAllocation
      lda =
       LatentDirichletAllocation(n_components=10, random_state=123, learning_method='batch')
```

```
X_topics = lda.fit_transform(X)
[21]: | lda.components_.shape
[21]: (10, 5000)
[22]: n_top_words = 5
      feature_names = count.get_feature_names()
      for topic_idx, topic in enumerate(lda.components_):
          print("Topic %d:" % (topic_idx + 1))
          print(" ".join([feature_names[i] for i in topic.argsort() [:-n_top_words -_
       →1:-1]]))
     Topic 1:
     worst minutes awful script stupid
     Topic 2:
     family mother father children girl
     Topic 3:
     american war dvd music tv
     Topic 4:
     human audience cinema art sense
     Topic 5:
     police guy car dead murder
     Topic 6:
     horror house sex girl woman
     Topic 7:
     role performance comedy actor performances
     Topic 8:
     series episode war episodes tv
     Topic 9:
     book version original read novel
     Topic 10:
     action fight guy guys cool
[23]: horror = X_topics[:, 5].argsort()[::-1]
      for iter_idx, movie_idx in enumerate(horror[:3]):
          print('\nHorror movie #%d:' % (iter_idx + 1))
          print(df['review'][movie_idx][:300], '...')
     Horror movie #1:
     House of Dracula works from the same basic premise as House of Frankenstein from
     the year before; namely that Universal's three most famous monsters; Dracula,
     Frankenstein's Monster and The Wolf Man are appearing in the movie together.
     Naturally, the film is rather messy therefore, but the fact that ...
     Horror movie #2:
     Okay, what the hell kind of TRASH have I been watching now? "The Witches'
```

Mountain" has got to be one of the most incoherent and insane Spanish exploitation flicks ever and yet, at the same time, it's also strangely compelling. There's absolutely nothing that makes sense here and I even doubt there  $\dots$ 

### Horror movie #3:

<br /><br />Horror movie time, Japanese style. Uzumaki/Spiral was a total
freakfest from start to finish. A fun freakfest at that, but at times it was a
tad too reliant on kitsch rather than the horror. The story is difficult to
summarize succinctly: a carefree, normal teenage girl starts coming fac ...

[]: