Project1:End-to-End Pipeline to Classify News Articles

January 29, 2023

1 Module loading

```python
import numpy as np
import pandas as pd
import random
from google.colab import drive
import matplotlib.pyplot as plt
import matplotlib
%matplotlib inline
from IPython.core.pylabtools import figsize
import re
from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.feature_extraction.text import TfidfTransformer
from nltk.stem import WordNetLemmatizer
from nltk import pos_tag, word_tokenize
from nltk.corpus import wordnet
import nltk
import string
from string import punctuation
from sklearn.decomposition import TruncatedSVD, NMF
from sklearn.utils.extmath import randomized_svd
nltk.download('punkt')
nltk.download('wordnet')
nltk.download('averaged_perceptron_tagger')
nltk.download('omw-1.4')
from sklearn.metrics import auc, roc_curve, plot_roc_curve,␣
 ↪plot_confusion_matrix, accuracy_score, recall_score, precision_score,␣
 ↪f1_score
from sklearn import datasets, metrics, model_selection, svm
from sklearn.model_selection import GridSearchCV
from sklearn.linear_model import LogisticRegression
from sklearn.naive_bayes import GaussianNB
from nltk.stem import PorterStemmer
from sklearn.pipeline import Pipeline
from tempfile import mkdtemp
from joblib import Memory
```

```
from sklearn.multiclass import OneVsRestClassifier, OneVsOneClassifier
drive.mount('/content/drive')
```

```
[ ]: #for local testing
     # df = pd.read_csv("Downloads/Project1-Classification.csv")
     df = pd.read_csv("drive/My Drive/ECE 219/Project1-Classification.csv")
     df.head()
```

```
[ ]:                                               full_text  \
     0  'Pure Hockey, the largest hockey retailer in t…
     1  'HKO Hockey Canada Sponsorship 20221006\n\nHoc…
     2  'Canadian Prime Minister Justin Trudeau said W…
     3  'Hockey Canada paid a crisis communications fi…
     4  'The Denver Broncos are looking for a new head…


                                                   summary  \
     0  'Pure Hockey, the largest hockey retailer in t…
     1  'The tally of Hockey Canada's sponsorship loss…
     2  'Canadian Prime Minister Justin Trudeau said W…
     3  'Nicholson says that Hockey Canada did not go …
     4  'The Denver Broncos are looking for a new head…


                                                  keywords  \
     0  ['acquire', 'agrees', 'nevada', 'retail', 'hoc…
     1  ['sexual', 'exclusive', 'settlement', 'million…
     2  ['québec', 'surprise', 'trust', 'sexual', 'org…
     3  ['sexual', 'organization', 'million', 'ceo', '…
     4  ['beats', 'force', 'season', 'teams', 'anchora…


                   publish_date  \
     0  2022-10-21 17:11:22+00:00
     1                        NaN
     2        2022-10-05 00:00:00
     3        2022-11-15 00:00:00
     4                        NaN


                                                   authors  \
     0                                      ['Ein News']
     1                                ['Barbara Shecter']
     2                              ['The Athletic Staff']
     3                                     ['Dan Robson']
     4  ['Parker Seibold', 'The Gazette', 'Gazette File']


                                               url leaf_label root_label
     0  https://www.einnews.com/pr_news/597148062/pure…     hockey     sports
     1  https://ca.finance.yahoo.com/news/exclusive-ho…     hockey     sports
     2  https://theathletic.com/3659888/2022/10/05/hoc…     hockey     sports
```

```
3  https://theathletic.com/3900630/2022/11/15/hoc…     hockey     sports
4  https://gazette.com/multimedia/photo-air-force…     hockey     sports
```

2 Question 1

```
[ ]: df.shape
```

```
[ ]: (3150, 8)
```

2.0.1 How many rows (samples) and columns (features) are present in the dataset?

- There are 3150 rows and 8 features presented in the dataset.

```
[ ]: df['totalwords'] = df['full_text'].str.split().str.len()
     df['totalwords'].head()
```

```
[ ]: 0      430
     1      936
     2      788
     3     1256
     4       32
     Name: totalwords, dtype: int64
```

2.0.2 The total number of alpha-numeric characters per data point (row) in the feature full text

```
[ ]: # (a) The total number of alpha-numeric characters per data point (row) in the␣
     ↪feature full text
     figsize(9,5)
     nparr=df['totalwords'].to_numpy()
     values, counts = np.unique(nparr, return_counts=True)
     plt.bar(values,counts, color='blue', edgecolor = 'black')
     plt.ylabel('frequencies')
     plt.xlabel('counts')
     plt.title('The total number of alpha-numeric characters per data point (row) in␣
     ↪the feature full text')
```

```
[ ]: Text(0.5, 1.0, 'The total number of alpha-numeric characters per data point
     (row) in the feature full text')
```

The total number of alpha-numeric characters per data point (row) in the feature full text
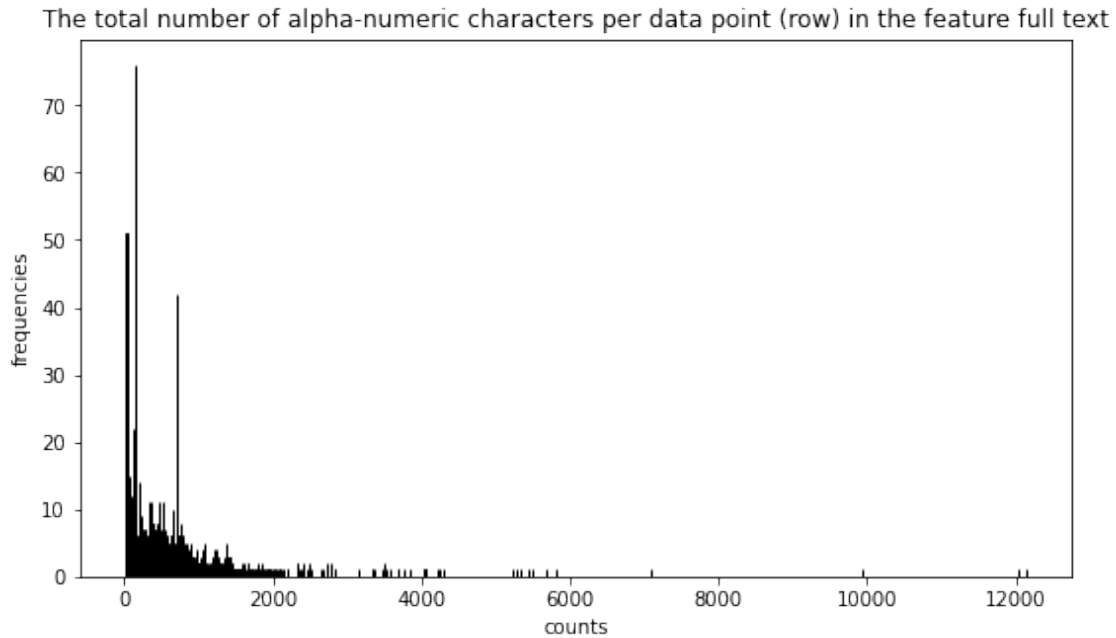
2.0.3 The column leaf label – class on the x-axis

```python
#(b) The column leaf label - class on the x-axis
nparr=df['leaf_label'].to_numpy()
values, counts = np.unique(nparr, return_counts=True)
figsize(12,5)

plt.bar(values,counts, color='blue', edgecolor = 'black')
plt.ylabel('frequencies')
plt.xlabel('counts')
plt.title('With column leaf label on the x-axis')
```

[ ]: Text(0.5, 1.0, 'With column leaf label on the x-axis')

With column leaf label on the x-axis
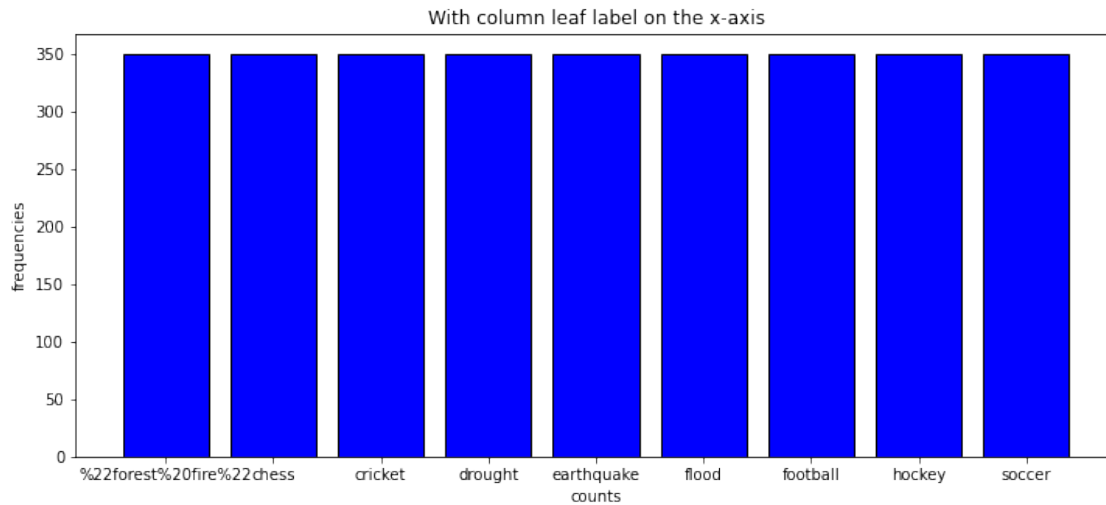
2.0.4 The column root label – class on the x-axis

```
[ ]: #(c) The column root label - class on the x-axis.
     #• Interpret Plots: Provide qualitative interpretations of the histograms.
     nparr=df['root_label'].to_numpy()
     values, counts = np.unique(nparr, return_counts=True)
     figsize(12,5)

     plt.bar(values,counts, color='blue', edgecolor = 'black')
     plt.ylabel('frequencies')
     plt.xlabel('counts')
     plt.title('With column root label on the x-axis')
```

```
[ ]: Text(0.5, 1.0, 'With column root label on the x-axis')
```


With column root label on the x-axis
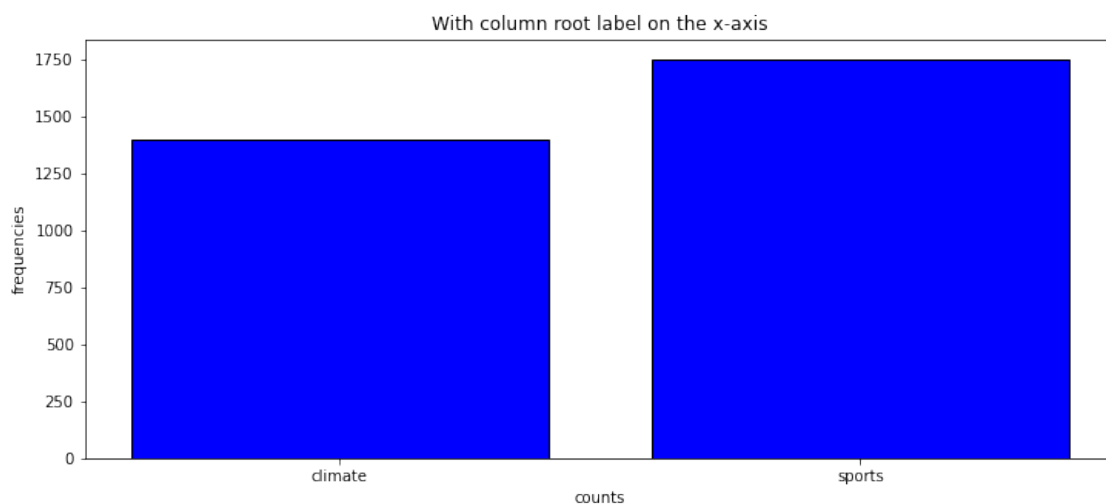
2.0.5 Qualitative interpretations:

- From the above graphs, we conclude that while we have an equal number of samples(rows) for each leaf sample.
- On the other hand, there's a slight difference between the number of samples for the columns of root label, which stems from the root label "sports" having one extra leaf label.
- Another observation is that the variance of word counts between different samples is quite high, with some outliers at over 7000 words.

3 Question 2

```python
train, test = train_test_split(df[["full_text","root_label"]], test_size=0.2)
#checking text after cleaning
train['full_text'].head()
```

```
2365     'FORT LAUDERDALE, Fla. - Just weeks before the…
152      'A teenage hockey player died on Christmas Day…
1395     'East Rutherford, NJ - The New York Giants and…
875      'Starting this season, the NFL will honor the …
228      'On Monday, 20 former patients from UMC Childr…
Name: full_text, dtype: object
```

```python
np.random.seed(42)
random.seed(42)
#define cleaning function
def clean(text):
 text = re.sub (r'^https?:\/\/.*[\r\n]*', '', text, flags=re.MULTILINE)
 texter = re.sub(r"<br />", " ", text)
 texter = re.sub(r"&quot;", "\"",texter)
 texter = re.sub('&#39;', "\"", texter)
 texter = re.sub('\n', " ", texter)
 texter = re.sub(' u '," you ", texter)
 texter = re.sub('`',"", texter)
 texter = re.sub(' +', ' ', texter)
 texter = re.sub(r"(!)\1+", r"!", texter)
 texter = re.sub(r"(\?)\1+", r"?", texter)
 texter = re.sub('&amp;', 'and', texter)
 texter = re.sub('\r', ' ',texter)
 clean = re.compile('<.*?>')
 texter = texter.encode('ascii', 'ignore').decode('ascii')
 texter = re.sub(clean, '', texter)
 if texter == "":
  texter = ""
 return texter
```

```
#clean raw text
for i in df['full_text']:
  clean(i)
df['full_text'] = df['full_text'].str.replace('\d+', '') # for digits
df['full_text'] = df['full_text'].str.replace('[^\w\s]', '') # for punctuation

print("\n")
print("Training samples size:", train.shape)
print("Testing samples size:", test.shape)
```

```
<ipython-input-9-20dd30fe6ba7>:27: FutureWarning: The default value of regex
will change from True to False in a future version.
  df['full_text'] = df['full_text'].str.replace('\d+', '') # for digits
<ipython-input-9-20dd30fe6ba7>:28: FutureWarning: The default value of regex
will change from True to False in a future version.
  df['full_text'] = df['full_text'].str.replace('[^\w\s]', '') # for punctuation
```

```
Training samples size: (2520, 2)
Testing samples size: (630, 2)
```

3.0.1 Report the number of training and testing samples.

A:

The training samples contain 2520 rows and 2 features.

The testing samples contain 630 rows and 2 features.

4 Question 3

```python
[ ]: def penn2morphy(penntag):
         """ Converts Penn Treebank tags to WordNet. """
         morphy_tag = {'NN':'n', 'JJ':'a',
                       'VB':'v', 'RB':'r'}
         try:
             return morphy_tag[penntag[:2]]
         except:
             return 'n'
     def lemmatize_sent(text):
         # Text input is string.
         # Returns sequence of lowercased strings(words).
         lemma_list = []
         lemma_list = [wnl.lemmatize(word.lower(), pos=penn2morphy(tag))
                       for word, tag in pos_tag(nltk.word_tokenize(text))]
         # Turn array of strings into sequence
```

```
        return ' '.join(lemma_list)
```

```python
wnl = WordNetLemmatizer()
vec = CountVectorizer(stop_words='english', min_df=3)
tfidf = TfidfTransformer()

X_train_lemma = []
X_test_lemma = []
for i in range(len(train)):
  # print(lemmatize_sent(train.iloc[i]['full_text']))
  X_train_lemma.append(lemmatize_sent(train.iloc[i]['full_text']))
for i in range(len(test)):
  X_test_lemma.append(lemmatize_sent(test.iloc[i]['full_text']))

X_train_vec = vec.fit_transform(X_train_lemma)
X_test_vec = vec.transform(X_test_lemma)
X_train_tfidf = tfidf.fit_transform(X_train_vec)
X_test_tfidf = tfidf.transform(X_test_vec)
print("X_train shape:", X_train_tfidf.shape)
print("X_test shape:", X_test_tfidf.shape)
```

```
X_train shape: (2520, 14617)
X_test shape: (630, 14617)
```

4.0.1 What are the pros and cons of lemmatization versus stemming? How do these processes affect the dictionary size?

A: The main advantage of lemmatization is that it takes into consideration the context of the word to determine which is the intended meaning the user is looking for. This process allows to decrease noise and speed up the user's task. However,because lemmatization involves deriving the meaning of a word from something like a dictionary, it's very time consuming.

Stemming usually refers to a process of chopping off the last few characters. Stemming operates on a single word without knowledge of the context. Stemming is not a well-defined process, it often suffers from incorrect meaning and spelling errors.

4.0.2 min df means minimum document frequency. How does varying min df change the TF-IDF matrix?

A:

When we increase the min df, it will decrease the column counts of the matrix, because the goal of MIN_DF is to ignore words that have very few occurrences to be considered meaningful.

4.0.3 Should I remove stopwords before or after lemmatizing? Should I remove punctuations before or after lemmatizing? Should I remove numbers before or after lemmatizing?

A:

We should remove stopwords after lemmatizing but remove punctuations before lemmatizing. Because in certain cases, stop words do indeed contribute meaning, and if an application is sensitive to such meanings, then stop words should not be eliminated.

4.0.4 Report the shape of the TF-IDF-processed train and test matrices. The number of rows should match the results of Question 2. The number of columns should roughly be in the order of $k \times 10^3$.

A:

The train matrices contains 2520 rows and 14224 columns and the test set contains 630 rows and 14224 columns.

5 Question 4

```python
ks = [1, 10, 50, 100, 200, 500, 1000, 2000]
ratios = []
for i in range(len(ks)):
  svd_tmp = TruncatedSVD(n_components=ks[i], random_state=42)
  # print(svd_tmp.explained_variance_ratio_)
  svd_tmp.fit(X_train_tfidf)
  print("explained_variance_ratio when k =", ks[i], ":", svd_tmp.
  →explained_variance_ratio_.sum())
  ratios.append(svd_tmp.explained_variance_ratio_.sum())


fig = plt.figure()
ax = fig.add_subplot(1, 1, 1)
ax.plot(ks, ratios)

ax.set_ylabel('explained_variance_ratio')
ax.set_xlabel('k')
plt.title('explained_variance_ratio versus different k')
plt.show()

svd = TruncatedSVD(n_components=50, random_state=42)
nmf = NMF(n_components=50, init='random', random_state=42)

print("\n")
# LSI
X_train_LSI = svd.fit_transform(X_train_tfidf)
X_test_LSI = svd.transform(X_test_tfidf)
# NMF
X_train_NMF = nmf.fit_transform(X_train_tfidf)
X_test_NMF = nmf.transform(X_test_tfidf)
# W = X_test_xxx
# H = nmf.components_
```

```python
# data shape
print("LSI:")
print('training data shape = ', X_train_LSI.shape)
print('test data shape = ', X_test_LSI.shape)
print("NMF:")
print('training data shape = ', X_train_NMF.shape)
print('test data shape = ', X_test_NMF.shape)



# calculate the reconstruction residual MSE error
train_U, train_S, train_V = randomized_svd(X_train_tfidf, n_components=50,
 →random_state=42)
test_U, test_S, test_V = randomized_svd(X_test_tfidf, n_components=50,
 →random_state=42)
print("\n")
print("the reconstruction residual MSE error:")
print("When using LSI:")
print('training error:',np.sum(np.array(X_train_tfidf - (train_U.dot(np.
 →diag(train_S)).dot(train_V)))**2))
print('test error:',np.sum(np.array(X_test_tfidf - (test_U.dot(np.diag(test_S)).
 →dot(test_V)))**2))

print("When using NMF:")
print('training error:',np.sum(np.array(X_train_tfidf - X_train_NMF.dot(nmf.
 →components_))**2))
print('test error:',np.sum(np.array(X_test_tfidf - X_test_NMF.dot(nmf.
 →components_))**2))
```

```
explained_variance_ratio when k = 1 : 0.006224825213568656
explained_variance_ratio when k = 10 : 0.15071903785672722
explained_variance_ratio when k = 50 : 0.30882595512242966
explained_variance_ratio when k = 100 : 0.3969366348332619
explained_variance_ratio when k = 200 : 0.5081589654140468
explained_variance_ratio when k = 500 : 0.7034444519048018
explained_variance_ratio when k = 1000 : 0.8770156830085055
explained_variance_ratio when k = 2000 : 0.9999363548878676
```

explained_variance_ratio versus different k
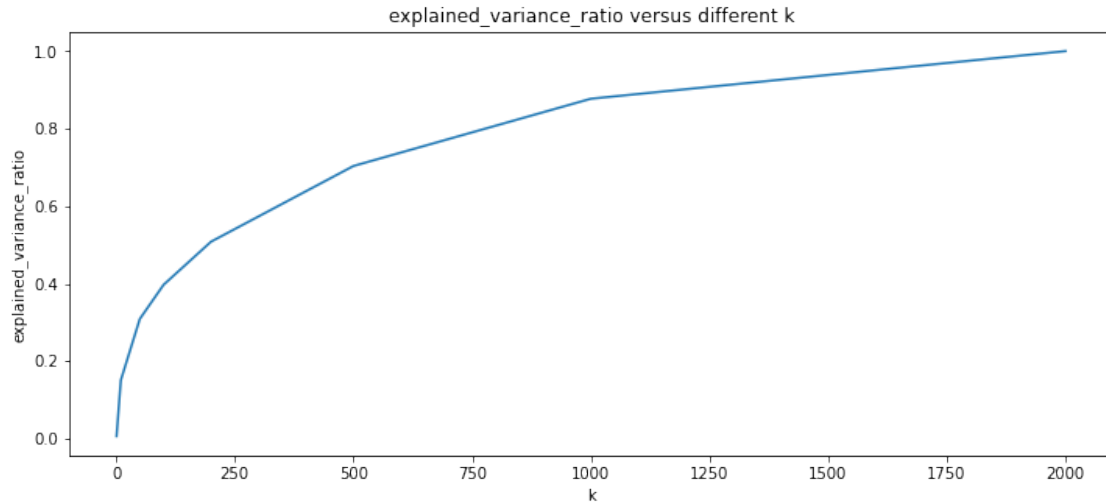
```
LSI:
training data shape =  (2520, 50)
test data shape =  (630, 50)
NMF:
training data shape =  (2520, 50)
test data shape =  (630, 50)


the reconstruction residual MSE error:
When using LSI:
training error: 1684.3349577485965
test error: 392.697960036842
When using NMF:
training error: 1711.2112622315972
test error: 441.68040727548663
```

5.0.1   What does the explained variance ratio plot look like? What does the plot's concavity suggest?

A:

The plot looks like a concave down durve. As k increases, the explained variance ratio getting larger. In which makes sense since the ratio reflects how much variation of the target value(Y) is explained by the data features(X).

5.0.2 **With k = 50 found in the previous sections, calculate the reconstruction residual MSE error when using LSI and NMF – they both should use the same k = 50. Which one is larger, the $\left\|X-WH\right\|_2^F$ in NMF or the $\left\|X-U_{kk}V_k^T\right\|_2^F$ in LSI and why?**

A:

As you can see, both the training error and test error in NMF are larger than those in LSI.

It makes sense because LSI is a more insightful method by giving us more information with the SVD factorization. Therefore, its mse error will be lower than NMF as we expect.

6 Question 5

```python
map_root = {"sports":1, "climate":0}
y_train = train['root_label'].map(map_root)
y_test = test['root_label'].map(map_root)
```

```python
def print_roc_curve(X_test_LSI, y_test, model, plt_title, colar):
    fig, ax = plt.subplots()
    plot_roc_curve(model, X_test_LSI, y_test, ax=ax, color=colar)
    ax.plot([0, 1], [0, 1], linestyle='--', lw=2, color='r', label='Chance',␣
    ↪alpha=.5)
    plt.title(plt_title)
    plt.show()

def print_cf_matrix(X_test_LSI, y_test, model, plt_title, display_labels):
    plot_confusion_matrix(model, X_test_LSI, y_test,␣
    ↪display_labels=display_labels)
    plt.tight_layout()
    plt.title(plt_title)
    # plt.savefig(image_name)
    plt.show()

def print_result(model_title, y_test, y_pred):
    print(model_title, ":")
    print("Accuracy:", accuracy_score(y_test, y_pred))
    print("Recall:", recall_score(y_test, y_pred))
    print("Precision:", precision_score(y_test, y_pred))
    print("F1-Score:", f1_score(y_test, y_pred), "\n")

def print_multi_result(model_title, y_test, y_pred):
    print(model_title, ":")
    print("Accuracy:", accuracy_score(y_test, y_pred))
    print("Recall:", recall_score(y_test, y_pred, average='weighted'))
    print("Precision:", precision_score(y_test, y_pred, average='weighted'))
    print("F1-Score:", f1_score(y_test, y_pred, average='weighted'), "\n")

root_labels = ['climate', 'sports']
```

6.0.1 Train one SVM with = 1000 (hard margin), another with = 0.0001 (soft margin)

```python
# build the svm with given gamma
hard_svm = svm.SVC(kernel='linear', C=1000, random_state=42)
soft_svm = svm.SVC(kernel='linear', C=0.0001, random_state=42)
harder_svm = svm.SVC(kernel='linear', C=100000, random_state=42)

# fit the model
hard_svm.fit(X_train_LSI, y_train)
soft_svm.fit(X_train_LSI, y_train)
harder_svm.fit(X_train_LSI, y_train)

# predict the test data
hard_y_pred = hard_svm.predict(X_test_LSI)
soft_y_pred = soft_svm.predict(X_test_LSI)
harder_y_pred = harder_svm.predict(X_test_LSI)
```
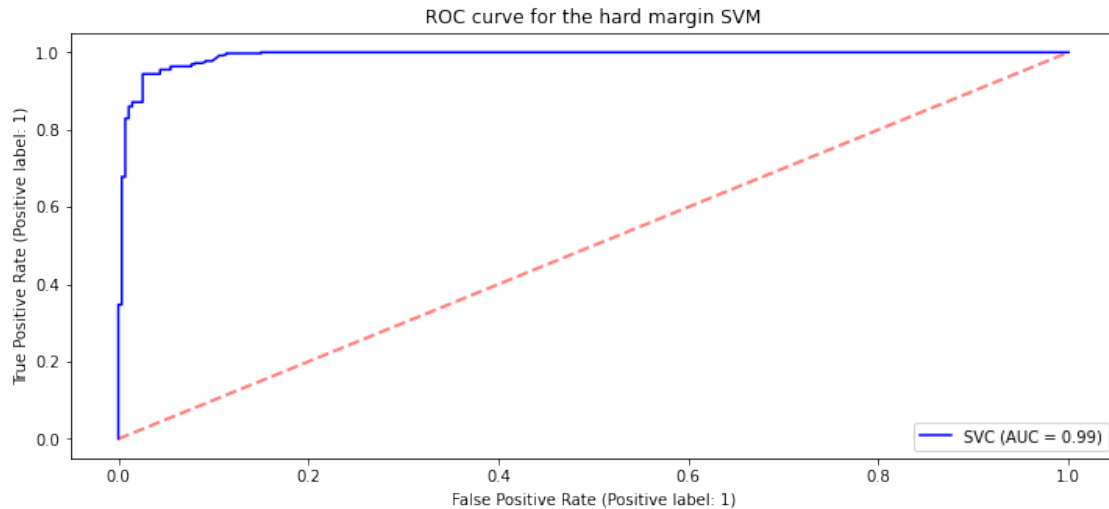
6.0.2 Plot the ROC curve, report the confusion matrix and calculate the accuracy, recall, precision and F-1 score of both SVM classifiers on the testing set. Which one performs better? What about for = 100000?
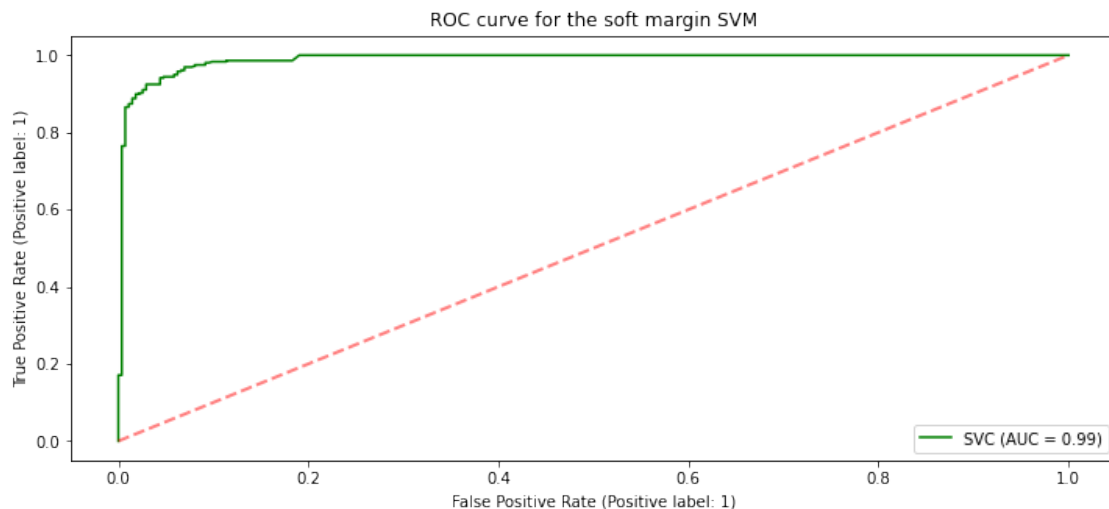
A:

As you can find in the following sections, the hard margin one performs better in this dataset. And the one with = 100000 performs even better than the hard margin one a little bit.

```python
print_roc_curve(X_test_LSI, y_test, hard_svm, 'ROC curve for the hard margin␣
  ↪SVM', 'b')
print_roc_curve(X_test_LSI, y_test, soft_svm, 'ROC curve for the soft margin␣
  ↪SVM', 'g')
print_roc_curve(X_test_LSI, y_test, harder_svm, 'ROC curve for the SVM with␣
  ↪gamma = 100000', 'g')
```

```
/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_roc_curve is deprecated; Function
:func:`plot_roc_curve` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: :meth:`sklearn.metric.RocCurveDisplay.from_predictions` or
:meth:`sklearn.metric.RocCurveDisplay.from_estimator`.
  warnings.warn(msg, category=FutureWarning)
```

ROC curve for the hard margin SVM

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_roc_curve is deprecated; Function
:func:`plot_roc_curve` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: :meth:`sklearn.metric.RocCurveDisplay.from_predictions` or
:meth:`sklearn.metric.RocCurveDisplay.from_estimator`.
  warnings.warn(msg, category=FutureWarning)

ROC curve for the soft margin SVM
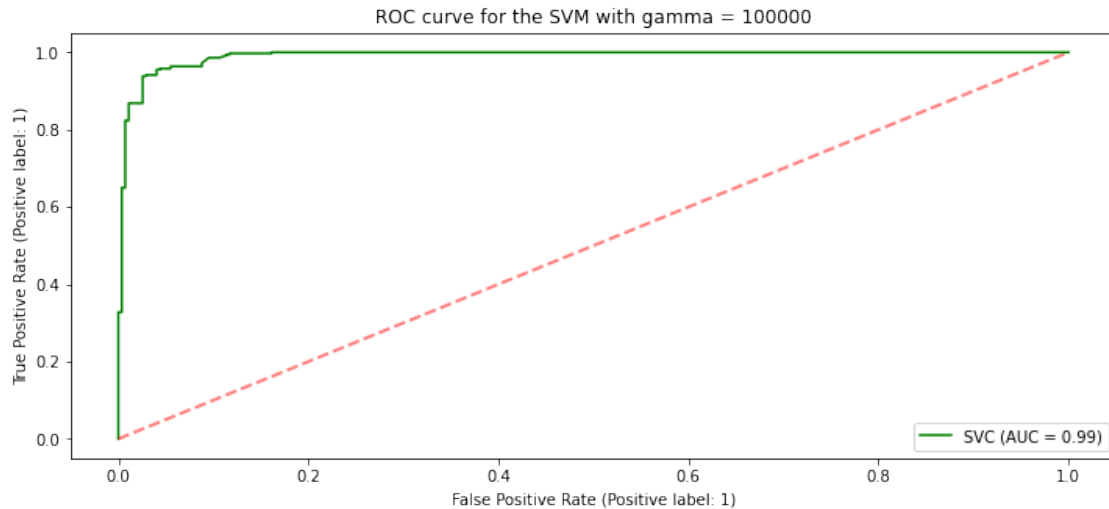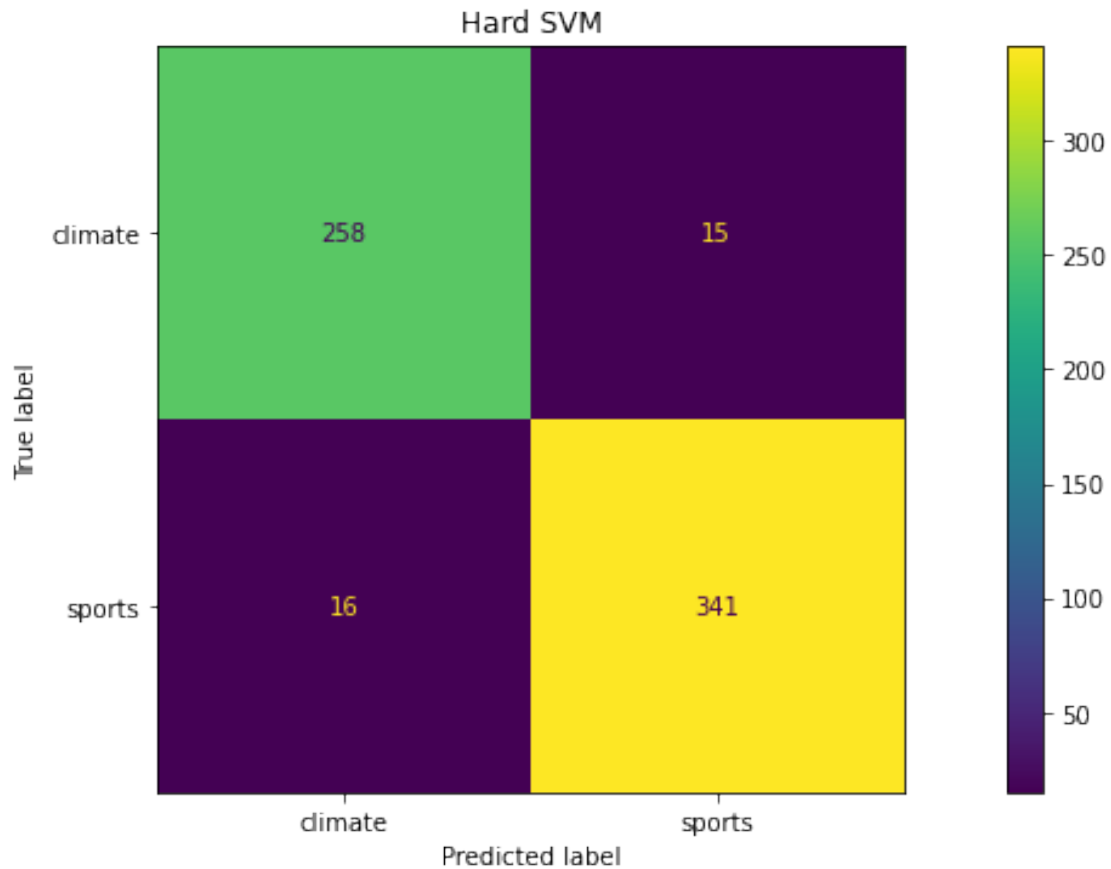
/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_roc_curve is deprecated; Function
:func:`plot_roc_curve` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: :meth:`sklearn.metric.RocCurveDisplay.from_predictions` or
:meth:`sklearn.metric.RocCurveDisplay.from_estimator`.
  warnings.warn(msg, category=FutureWarning)

ROC curve for the SVM with gamma = 100000

```
print_cf_matrix(X_test_LSI, y_test, hard_svm, 'Hard SVM',
 →display_labels=root_labels)
print_cf_matrix(X_test_LSI, y_test, soft_svm, 'Soft SVM',
 →display_labels=root_labels)
print_cf_matrix(X_test_LSI, y_test, harder_svm, 'SVM with gamma = 100000',
 →display_labels=root_labels)
```

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

Hard SVM

```
/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)
```

Soft SVM

```
/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)
```
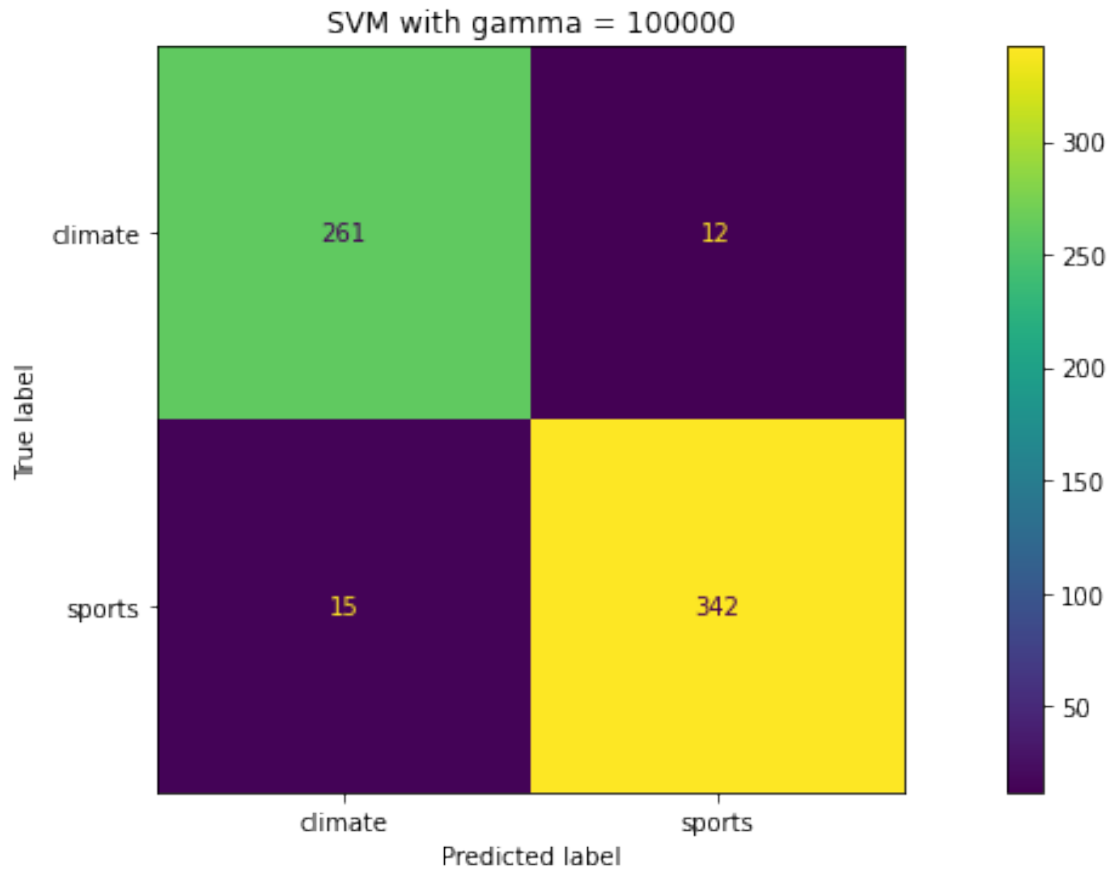
SVM with gamma = 100000


```
print_result("Hard SVM", y_test, hard_y_pred)
print_result("Soft SVM", y_test, soft_y_pred)
print_result("SVM with gamma = 100000", y_test, harder_y_pred)
```

Hard SVM :
Accuracy: 0.9507936507936507
Recall: 0.9551820728291317
Precision: 0.9578651685393258
F1-Score: 0.9565217391304349

Soft SVM :
Accuracy: 0.5666666666666667
Recall: 1.0
Precision: 0.5666666666666667
F1-Score: 0.7234042553191489

SVM with gamma = 100000 :
Accuracy: 0.9571428571428572
Recall: 0.957983193277311
Precision: 0.9661016949152542

```
F1-Score: 0.9620253164556962
```

6.0.3 What happens for the soft margin SVM? Why is the case? Analyze in terms of the confusion matrix

A:

From the confusion matrix of soft margin SVM, you can find that it predicts all the test data into the "sports" category. In which might because of its margin is too small to allow the model classify different data and makes the misclassification of data not being punished.

Does the ROC curve reflect the performance of the soft-margin SVM? Why? A:

No. It doesn't reflect the performance.

The ROC curve is a plot of True Positive Rate (TPR) on the y-axis vs. False Positive Rate (FPR) on the x-axis.

$TPR = \frac{TruePositive}{TruePositive+FalseNegative}$

$FPR = \frac{FalsePositive}{FalsePositive+TrueNegative}$

Since the model predicts all the test data into the "sports" label, you can find out that the TPR and FPR are all **equal to 1** in this situation. Therefore, the ROC curve is not useful to evaluate the performance of the soft-margin SVM.

6.0.4 Use cross-validation to choose (use average validation 3 accuracy to compare): Using a 5-fold cross-validation, find the best value of the parameter in the range {10k | − 3 k 6, k Z}. Again, plot the ROC curve and report the confusion matrix and calculate the accuracy, recall precision and F-1 score of this best SVM.

After using the cross-validation, we can find out the best to use here is 100.

```python
svc = svm.SVC(random_state=42)
parameters = {'C': [0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000, 100000,
 ↪1000000], 'kernel': ['linear']}


clf = GridSearchCV(svc, parameters, cv=5, scoring='accuracy')
clf.fit(X_train_LSI, y_train)
best_y_pred = clf.best_estimator_.predict(X_test_LSI)
```

```python
print('Best Value of  :',clf.best_params_['C'])
for l, n in zip(parameters['C'], clf.cv_results_['mean_test_score']):
    print(f' : {l}\t',f'average validation accuracy: {n}')
print_roc_curve(X_test_LSI, y_test, clf.best_estimator_, 'ROC curve for the
 ↪BEST SVM', 'b')
print_cf_matrix(X_test_LSI, y_test, clf.best_estimator_, 'BEST SVM',
 ↪display_labels=root_labels)
print_result("BEST SVM", y_test, best_y_pred)
```

```
Best Value of  : 10000
 : 0.001        average validation accuracy: 0.5527777777777778
 : 0.01   average validation accuracy: 0.5531746031746032
 : 0.1    average validation accuracy: 0.9369047619047619
 : 1      average validation accuracy: 0.9472222222222223
 : 10     average validation accuracy: 0.9523809523809523
 : 100    average validation accuracy: 0.9543650793650794
 : 1000   average validation accuracy: 0.9539682539682539
 : 10000        average validation accuracy: 0.9547619047619047
 : 100000       average validation accuracy: 0.9539682539682539
 : 1000000      average validation accuracy: 0.9543650793650794
```

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_roc_curve is deprecated; Function
:func:`plot_roc_curve` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: :meth:`sklearn.metric.RocCurveDisplay.from_predictions` or
:meth:`sklearn.metric.RocCurveDisplay.from_estimator`.
  warnings.warn(msg, category=FutureWarning)

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

BEST SVM

```
BEST SVM :
Accuracy: 0.9571428571428572
Recall: 0.957983193277311
Precision: 0.9661016949152542
F1-Score: 0.9620253164556962
```

7 Question 6

7.0.1 Train a logistic classifier without regularization (you may need to come up with some way to approximate this if you use sklearn.linear model.LogisticRegression); plot the ROC curve and report the confusion matrix and calculate the accuracy, recall precision and F-1 score of this classifier on the testing set.

```python
log_wor = LogisticRegression(penalty='none', random_state=9527, max_iter=100000)
log_wor.fit(X_train_LSI, y_train)
log_wor_y_pred = log_wor.predict(X_test_LSI)
```

```
[ ]: print_roc_curve(X_test_LSI, y_test, log_wor, 'ROC curve for the Logistic␣
      ↪Regression without regularization', 'b')
     print_cf_matrix(X_test_LSI, y_test, log_wor, 'Logistic Regression without␣
      ↪regularization', display_labels=root_labels)
     print_result("Logistic Regression without regularization", y_test,␣
      ↪log_wor_y_pred)
```

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_roc_curve is deprecated; Function
:func:`plot_roc_curve` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: :meth:`sklearn.metric.RocCurveDisplay.from_predictions` or
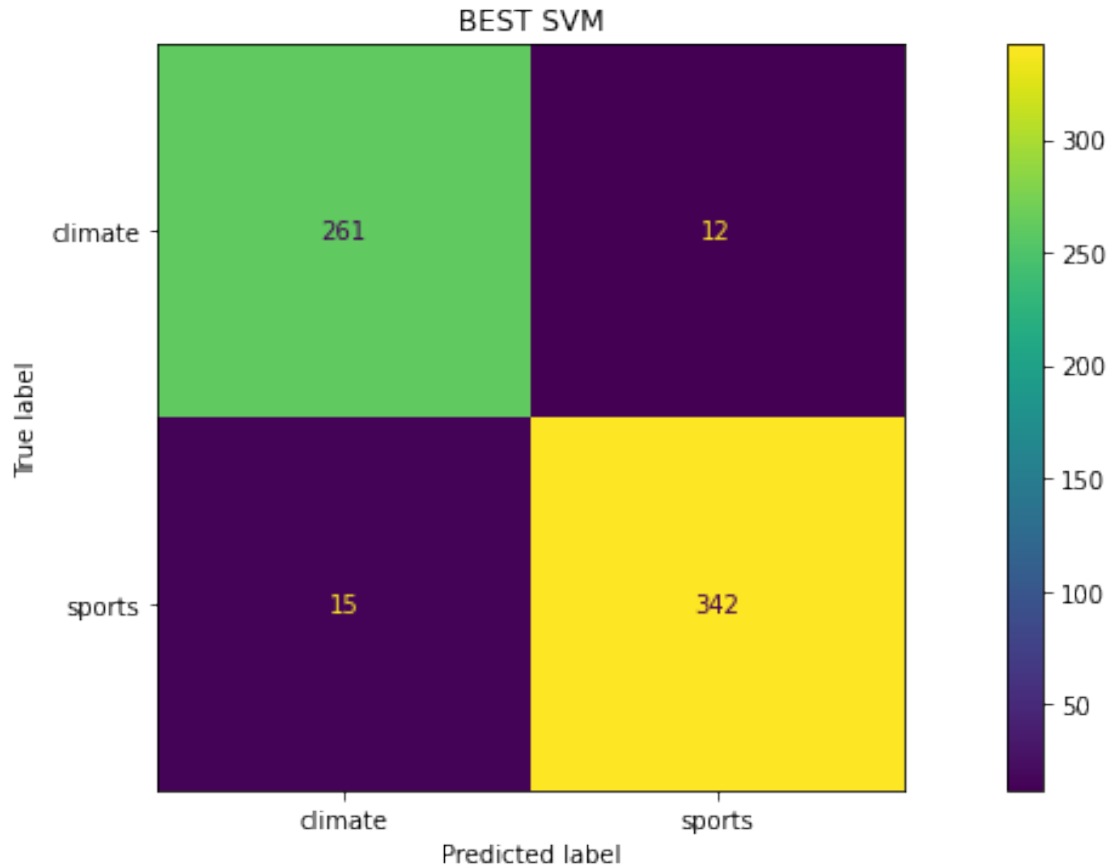:meth:`sklearn.metric.RocCurveDisplay.from_estimator`.
  warnings.warn(msg, category=FutureWarning)

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

Logistic Regression without regularization :
Accuracy: 0.9555555555555556
Recall: 0.9551820728291317
Precision: 0.9660056657223796
F1-Score: 0.9605633802816901

7.0.2 Using 5-fold cross-validation on the dimension-reduced-by-SVD training data, find the optimal regularization strength in the range {10k | −5 ≤ k ≤ 5, k ∈ Z} for logistic regression with L1 regularization and logistic regression with L2 regularization, respectively.

```python
# L1 regularization
log_l1 = LogisticRegression(penalty='l1', random_state=9527,
 →solver='liblinear', max_iter=100000)
parameters = {'C': [0.00001, 0.0001, 0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000,
 →100000]}
clf_l1 = GridSearchCV(log_l1, parameters, cv=5, scoring='accuracy')
clf_l1.fit(X_train_LSI, y_train)
```

```
l1_best_y_pred = clf_l1.best_estimator_.predict(X_test_LSI)
# L2 regularization
log_l2 = LogisticRegression(penalty='l2', random_state=9527,␣
 ↪solver='liblinear', max_iter=100000)
parameters = {'C': [0.00001, 0.0001, 0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000,␣
 ↪100000]}
clf_l2 = GridSearchCV(log_l2, parameters, cv=5, scoring='accuracy')
clf_l2.fit(X_train_LSI, y_train)
l2_best_y_pred = clf_l2.best_estimator_.predict(X_test_LSI)
```

7.0.3 Compare the performance (accuracy, precision, recall and F-1 score) of 3 logistic classifiers: w/o regularization, w/ L1 regularization and w/ L2 regularization (with the best parameters you found from the part above), using test data.

A:

When using the best parameter we found, we can find that we get the exact same performance of 3 different logistic classifiers.

```
[ ]: print('Best Value of regularization strength in L1 regularization:',clf_l1.
      ↪best_params_['C'])
     for l, n in zip(parameters['C'], clf_l1.cv_results_['mean_test_score']):
         print(f'reg. strength(C):{l}\t',f'average validation accuracy: {n}')

     print('\nBest Value of regularization strength in L2 regularization:',clf_l2.
      ↪best_params_['C'])
     for l, n in zip(parameters['C'], clf_l2.cv_results_['mean_test_score']):
         print(f'reg. strength(C):{l}\t',f'average validation accuracy: {n}')
```

```
Best Value of regularization strength in L1 regularization: 100
reg. strength(C):1e-05    average validation accuracy: 0.4472222222222224
reg. strength(C):0.0001   average validation accuracy: 0.4472222222222224
reg. strength(C):0.001    average validation accuracy: 0.4472222222222224
reg. strength(C):0.01     average validation accuracy: 0.5527777777777778
reg. strength(C):0.1      average validation accuracy: 0.923015873015873
reg. strength(C):1        average validation accuracy: 0.9428571428571428
reg. strength(C):10       average validation accuracy: 0.9547619047619047
reg. strength(C):100      average validation accuracy: 0.9563492063492063
reg. strength(C):1000     average validation accuracy: 0.9563492063492063
reg. strength(C):10000    average validation accuracy: 0.9563492063492063
reg. strength(C):100000   average validation accuracy: 0.9563492063492063

Best Value of regularization strength in L2 regularization: 100000
reg. strength(C):1e-05    average validation accuracy: 0.5527777777777778
reg. strength(C):0.0001   average validation accuracy: 0.5527777777777778
reg. strength(C):0.001    average validation accuracy: 0.5527777777777778
reg. strength(C):0.01     average validation accuracy: 0.7031746031746032
reg. strength(C):0.1      average validation accuracy: 0.9281746031746032
```

```
reg. strength(C):1        average validation accuracy: 0.9468253968253968
reg. strength(C):10       average validation accuracy: 0.9535714285714286
reg. strength(C):100      average validation accuracy: 0.9555555555555555
reg. strength(C):1000     average validation accuracy: 0.9551587301587302
reg. strength(C):10000    average validation accuracy: 0.9555555555555555
reg. strength(C):100000   average validation accuracy: 0.9563492063492063
```

```
[ ]: print_result("Logistic Regression without regularization", y_test,␣
      ↪log_wor_y_pred)
     print_result("Logistic Regression with L1 regularization", y_test,␣
      ↪l1_best_y_pred)
     print_result("Logistic Regression with L2 regularization", y_test,␣
      ↪l2_best_y_pred)
```

```
Logistic Regression without regularization :
Accuracy: 0.9555555555555556
Recall: 0.9551820728291317
Precision: 0.9660056657223796
F1-Score: 0.9605633802816901

Logistic Regression with L1 regularization :
Accuracy: 0.9555555555555556
Recall: 0.9551820728291317
Precision: 0.9660056657223796
F1-Score: 0.9605633802816901

Logistic Regression with L2 regularization :
Accuracy: 0.9555555555555556
Recall: 0.9551820728291317
Precision: 0.9660056657223796
F1-Score: 0.9605633802816901
```

7.0.4 How does the regularization parameter affect the test error? How are the learnt coefficients affected? Why might one be interested in each type of regularization?

A:

From our experiment, we didn't see much differences in the accuracy or error when using the best parameter in different regularization. However, the best parameter of l2 regularization is much higher than l1 regularization.

We can think of that all these models can reach a limit when we find the best parameter to use. Therefore, the different bias (regularizations) we add to the model doesn't affect the performance.

7.0.5 Both logistic regression and linear SVM are trying to classify data points using a linear decision boundary. What is the difference between their ways to find this boundary? Why do their performances differ? Is this difference statistically significant?

A:

Logistic regression maximizes the conditional probability likelihood to find the decision boundary. SVM use geometric and deterministic method to separate the hyperplane and find the vectors of the margin.

Therefore, SVM can yield a deterministic hyperplane to improve accuracy and reduce error rate. In which makes it more generalized and efficient. On the other hand, logistic regression is more likely to overfitting since its decision is basically relied on the dataset. In which makes it get higher accuracy more easily but lose the generality instead.

Lastly, the difference in this dataset is not statistically significant since the difference is approximately 0.008. We believe there is no much difference when we can find the best parameters in each model.

8 Question 7

8.0.1 Evaluate and profile a Na¨ıve Bayes classifier: Train a GaussianNB classifier; plot the ROC curve and report the confusion matrix and calculate the accuracy, recall, precision and F-1 score of this classifier on the testing set.

```
gnb = GaussianNB()
gnb.fit(X_train_LSI, y_train)
gnb_y_pred = gnb.predict(X_test_LSI)
```

```
print_roc_curve(X_test_LSI, y_test, gnb, 'ROC curve for the GaussianNB␣
 ↪classifiers', 'b')
print_cf_matrix(X_test_LSI, y_test, gnb, 'GaussianNB classifiers',␣
 ↪display_labels=root_labels)
print_result("GaussianNB classifiers", y_test, gnb_y_pred)
```

```
/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_roc_curve is deprecated; Function
:func:`plot_roc_curve` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: :meth:`sklearn.metric.RocCurveDisplay.from_predictions` or
:meth:`sklearn.metric.RocCurveDisplay.from_estimator`.
  warnings.warn(msg, category=FutureWarning)
```

ROC curve for the GaussianNB classifiers

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

GaussianNB classifiers


```
GaussianNB classifiers :
Accuracy: 0.9253968253968254
Recall: 0.8935574229691877
Precision: 0.9725609756097561
F1-Score: 0.9313868613138686
```

9 Question 8

```python
X_train = train['full_text']
print(X_train)
```

```
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                            …
774     'This weekend brings us a battle between ranke…
```

```
181      'The Bulldog Insider Podcast returns this week…
1166     'About Photo #4837929: Catherine, Princess of …
1614     'A listener wrote into Bobby Bones mailbag say…
2202     'The housing industry, from servicers to real …
Name: full_text, Length: 2520, dtype: object
```

```python
def stemming_sent(text):
    # Text input is string.
    # Returns sequence of lowercased strings(words).
    porter = PorterStemmer()
    token_words = word_tokenize(text)
    stem_list = []
    for word in token_words:
        stem_list.append(porter.stem(word))
        stem_list.append(" ")
    # Turn array of strings into sequence
    return ' '.join(stem_list)
```

```python
cachedir = mkdtemp()
memory = Memory(cachedir, verbose=87)
estimators = [
    ('vect', CountVectorizer(stop_words='english')),
    ('tfidf', TfidfTransformer()),
    ('reduce_dim', None),
    ('clf', None),
    ]
pipeline = Pipeline(estimators, memory=memory)
param_grid = [{
        'vect__min_df': [3,5],
        'vect__analyzer': [lemmatize_sent, stemming_sent],
        'reduce_dim': [TruncatedSVD(n_components=5, random_state=42),
                       TruncatedSVD(n_components=30, random_state=42),
                       TruncatedSVD(n_components=80, random_state=42),
                       NMF(n_components=5, init='random', random_state=42),
                       NMF(n_components=30, init='random', random_state=42),
                       NMF(n_components=80, init='random', random_state=42)],
        'clf': [svm.SVC(kernel='linear',C=100,random_state=42),
               LogisticRegression(penalty='l1', C=100, random_state=42,␣
 ↪solver='liblinear',max_iter=100000),
               LogisticRegression(penalty='l2', C=100, random_state=42,␣
 ↪solver='liblinear',max_iter=100000),
               GaussianNB()]
    }]
CV = GridSearchCV(pipeline, cv=5, param_grid=param_grid, scoring='accuracy')
CV.fit(X_train, y_train)
```

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func

```
_fit_transform_one, argument hash 076bfeb518760273c2b5a2ab9e0ae30a in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one


--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=3,
                stop_words='english'),
816      'One of NZ football's greats, Maia Jackman hop…
1706     'Upon hearing Anya Taylor-Joy was cast as Mad …
714      'Who knew that the most important game in the …
2953     'One of two Arthur V. Watkins Dam siphon pipes…
2756     'But the Mendocino Triple Junction is differen…
                            …
774      'This weekend brings us a battle between ranke…
181      'The Bulldog Insider Podcast returns this week…
1166     'About Photo #4837929: Catherine, Princess of …
1614     'A listener wrote into Bobby Bones mailbag say…
2202     'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
816      1
1706     1
714      1
2953     0
2756     0
         ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 2d51dfd1b0871e4705fd069ad7d99896 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a6aa70ad3df877b70827ac7942345d01 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/076bfe
b518760273c2b5a2ab9e0ae30a
_____fit_transform_one - 78.8s, 1.3min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x124 sparse matrix of type '<class
```

```
'numpy.int64'>'
        with 86581 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/2d51df
d1b0871e4705fd069ad7d99896
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86581 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a6aa70
ad3df877b70827ac7942345d01
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 479b08de5d6276a93895a7fabc6d7f0f in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one


_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=3,
```

```
                      stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                                  …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
         ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 38af495f7e1a99305bdb0f26b8496a34 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash cf4a135334017b1dd7d32f4509976431 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/479b08
de5d6276a93895a7fabc6d7f0f
_____fit_transform_one - 74.9s, 1.2min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x122 sparse matrix of type '<class
'numpy.int64'>'
        with 86266 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
```

```
       ..
774    1
181    1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/38af49
5f7e1a99305bdb0f26b8496a34
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
       with 86266 stored elements in Compressed Sparse Row format>,
83     1
2645   0
2293   0
1725   1
2066   0
       ..
774    1
181    1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/cf4a13
5334017b1dd7d32f4509976431
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 8b544da7ca1521fd2925f24c65c863e3 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one


_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=3,
                stop_words='english'),
83     'Following a pandemic-induced two-year delay, …
2645   'Lead Stories:\n\n1. The Aftershock Festival s…
2293   'Weather Street Sweeping Suspended In Hoboken …
1725   'Robert Duvall has a supporting role in the pe…
2066   'Aircraft Returning to Field Causes 10-Acre Br…
                         …
```

```
774       'This weekend brings us a battle between ranke…
181       'The Bulldog Insider Podcast returns this week…
1166      'About Photo #4837929: Catherine, Princess of …
1614      'A listener wrote into Bobby Bones mailbag say…
2202      'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83        1
2645      0
2293      0
1725      1
2066      0
          ..
774       1
181       1
1166      1
1614      1
2202      0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash ff798cafcdf95e1f8aae09348c9f5c9b in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash f1cb1c162b32e33671aa70df9ed1a1e4 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/8b544d
a7ca1521fd2925f24c65c863e3
_____fit_transform_one - 76.2s, 1.3min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x122 sparse matrix of type '<class
'numpy.int64'>'
        with 86197 stored elements in Compressed Sparse Row format>,
83        1
2645      0
2293      0
1725      1
2066      0
          ..
774       1
181       1
1166      1
1614      1
2202      0
Name: root_label, Length: 2016, dtype: int64,
```

```
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/ff798c
afcdf95e1f8aae09348c9f5c9b
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86197 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f1cb1c
162b32e33671aa70df9ed1a1e4
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 0689aec3861994d459ff91e20e36bd4c in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one


_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=3,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                              …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
```

```
2645    0
2293    0
1725    1
2066    0
         ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 420245a5453def1a56b325501e12c6a6 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 65f58cd03cd9ae9d073f3cbea55c9c9b in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/0689ae
c3861994d459ff91e20e36bd4c
_____fit_transform_one - 76.2s, 1.3min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x123 sparse matrix of type '<class
'numpy.int64'>'
        with 86455 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
         ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/420245
a5453def1a56b325501e12c6a6
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x123
```

```
sparse matrix of type '<class 'numpy.float64'>'
        with 86455 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/65f58c
d03cd9ae9d073f3cbea55c9c9b
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 454e885ca9bfa6e0290a9d62a83c9afc in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=3,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                                …
1311    'East Rutherford, NJ - The New York Giants and…
2004    'Fire officials are working to contain a 30-ac…
2031    'The California Department of Insurance (CDI) …
237     'Kenya's only ice hockey team must overcome ma…
1529    'While we may earn a commission if you buy som…
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
```

```
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 4fa77ed19eed0447e10fb2e3b8f222b7 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash ec49347cddcb2433d9392352c1e0224e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/454e88
5ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one - 76.9s, 1.3min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x124 sparse matrix of type '<class
'numpy.int64'>'
        with 86350 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/4fa77e
d19eed0447e10fb2e3b8f222b7
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86350 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
```

```
          ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/ec4934
7cddcb2433d9392352c1e0224e
_____fit_transform_one - 0.0s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash f7d700ab839a988889090b6440890bfa in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=5,
                stop_words='english'),
816     'One of NZ football's greats, Maia Jackman hop…
1706    'Upon hearing Anya Taylor-Joy was cast as Mad …
714     'Who knew that the most important game in the …
2953    'One of two Arthur V. Watkins Dam siphon pipes…
2756    'But the Mendocino Triple Junction is differen…
                            …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
816     1
1706    1
714     1
2953    0
2756    0
          ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
```

0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 8dc6b1a7a58e0297b033da5c3a02b112 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash dfeb7b8df9aeee89e22cbeeb56d7f5c7 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f7d700
ab839a988889090b6440890bfa
_____fit_transform_one - 78.4s, 1.3min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x101 sparse matrix of type '<class
'numpy.int64'>'
        with 86499 stored elements in Compressed Sparse Row format>,
816   1
1706   1
714   1
2953   0
2756   0
        ..
774   1
181   1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/8dc6b1
a7a58e0297b033da5c3a02b112
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86499 stored elements in Compressed Sparse Row format>,
816   1
1706   1
714   1
2953   0
2756   0
        ..
774   1
181   1
1166   1
1614   1
2202   0

```
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/dfeb7b
8df9aeee89e22cbeeb56d7f5c7
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash f87040235d2c5d94093dbb11559b0d8a in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=5,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                            …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 295da239413c9f20b006fee38d8bf0ba in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 4649daff5b7d9dcb8202874cb037d9b9 in location
```

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/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f87040
235d2c5d94093dbb11559b0d8a
_____fit_transform_one - 74.4s, 1.2min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x101 sparse matrix of type '<class
'numpy.int64'>'
        with 86194 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/295da2
39413c9f20b006fee38d8bf0ba
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86194 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/4649da
ff5b7d9dcb8202874cb037d9b9
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
```

```
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 3835ec60282ebea6371d7b95f1676846 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=5,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                              …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0

        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 1ed61253d0f77ca0d2167debb20f9744 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 45583dac6f0c68115c21f27733a0404a in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/3835ec
60282ebea6371d7b95f1676846
_____fit_transform_one - 75.7s, 1.3min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
```

```
_fit_transform_one(TfidfTransformer(), <2016x101 sparse matrix of type '<class
'numpy.int64'>'
        with 86123 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/1ed612
53d0f77ca0d2167debb20f9744
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86123 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/45583d
ac6f0c68115c21f27733a0404a
_____fit_transform_one - 0.0s, 0.0min
_____
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 19ba5b58a23a03bd9a6973387ec3da80 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
```

```
0x7fc394800280>, min_df=5,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                              …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash ecd74be361c7dffd2e3355b0a462b872 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash b1a188b272d96bc5af22db1bb9dc2023 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/19ba5b
58a23a03bd9a6973387ec3da80
_____fit_transform_one - 76.5s, 1.3min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x101 sparse matrix of type '<class
'numpy.int64'>'
        with 86378 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
```

```
2066    0
         ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/ecd74b
e361c7dffd2e3355b0a462b872
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86378 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
         ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/b1a188
b272d96bc5af22db1bb9dc2023
_____fit_transform_one - 0.0s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a0ec2f4457af5c41ad3eaabcef4ba72d in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function lemmatize_sent at
0x7fc394800280>, min_df=5,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
```

```
                               …
1311    'East Rutherford, NJ - The New York Giants and…
2004    'Fire officials are working to contain a 30-ac…
2031    'The California Department of Insurance (CDI) …
237     'Kenya's only ice hockey team must overcome ma…
1529    'While we may earn a commission if you buy som…
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash be88d13abbb2dad4a1805059295820bd in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash d6b53ca13d2762a763be71caace83f5c in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a0ec2f
4457af5c41ad3eaabcef4ba72d
_____fit_transform_one - 77.3s, 1.3min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x102 sparse matrix of type '<class
'numpy.int64'>'
        with 86280 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
```

```
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/be88d1
3abbb2dad4a1805059295820bd
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x102
sparse matrix of type '<class 'numpy.float64'>'
        with 86280 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/d6b53c
a13d2762a763be71caace83f5c
_____fit_transform_one - 0.0s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash c3f7d71343053a4a0985f5aa43936e61 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=3,
                stop_words='english'),
816     'One of NZ football's greats, Maia Jackman hop…
1706    'Upon hearing Anya Taylor-Joy was cast as Mad …
714     'Who knew that the most important game in the …
2953    'One of two Arthur V. Watkins Dam siphon pipes…
2756    'But the Mendocino Triple Junction is differen…
                        …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
```

```
816       1
1706      1
714       1
2953      0
2756      0
          ..
774       1
181       1
1166      1
1614      1
2202      0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash af3d70d01a84d469782cba411b329eb5 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash c3fa60a8dc9358b904fd20e604f1197f in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/c3f7d7
1343053a4a0985f5aa43936e61
_____fit_transform_one - 31.1s, 0.5min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x124 sparse matrix of type '<class
'numpy.int64'>'
        with 86415 stored elements in Compressed Sparse Row format>,
```
816       1
1706      1
714       1
2953      0
2756      0
          ..
774       1
181       1
1166      1
1614      1
2202      0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/af3d70
d01a84d469782cba411b329eb5
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…

```
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86415 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/c3fa60
a8dc9358b904fd20e604f1197f
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash f54c95157b03f99ed30eb874256efd6a in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=3,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                        …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
```

```
181       1
1166      1
1614      1
2202      0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash b7b233ebf12d1b3049dbcaef5781d87b in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 034fdbf093724b31106c01252c55b4df in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

```
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f54c95
157b03f99ed30eb874256efd6a
_____fit_transform_one - 29.7s, 0.5min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x122 sparse matrix of type '<class
'numpy.int64'>'
        with 86097 stored elements in Compressed Sparse Row format>,
83        1
2645      0
2293      0
1725      1
2066      0
          ..
774       1
181       1
1166      1
1614      1
2202      0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/b7b233
ebf12d1b3049dbcaef5781d87b
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86097 stored elements in Compressed Sparse Row format>,
83        1
2645      0
2293      0
1725      1
```

```
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/034fdb
f093724b31106c01252c55b4df
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 572879036cf41750502ddbe131981596 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=3,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                            …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

```
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a7e5f48c01b1345d62c0bdc4afeac20c in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 15b39cc46c784ed51ad73098a3c5fe73 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/572879
036cf41750502ddbe131981596
_____fit_transform_one - 30.1s, 0.5min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x122 sparse matrix of type '<class
'numpy.int64'>'
        with 86016 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a7e5f4
8c01b1345d62c0bdc4afeac20c
_____fit_transform_one - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86016 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/15b39c
c46c784ed51ad73098a3c5fe73
_____fit_transform_one - 0.0s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash b7d970432272da283029c6ce356c4101 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=3,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                          …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
       ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash d8d81e7f7ec3085591b5dbf2e1b36ce9 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
```

```
_fit_transform_one, argument hash f0155feeb9fc742d248cc22d51c438f3 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/b7d970
432272da283029c6ce356c4101
_____fit_transform_one - 30.3s, 0.5min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x123 sparse matrix of type '<class
'numpy.int64'>'
        with 86276 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/d8d81e
7f7ec3085591b5dbf2e1b36ce9
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x123
sparse matrix of type '<class 'numpy.float64'>'
        with 86276 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f0155f
eeb9fc742d248cc22d51c438f3
_____fit_transform_one - 0.0s, 0.0min
```

```
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a3d168925c019a9093273f64c30fca83 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

--------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=3,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                        …
1311    'East Rutherford, NJ - The New York Giants and…
2004    'Fire officials are working to contain a 30-ac…
2031    'The California Department of Insurance (CDI) …
237     'Kenya's only ice hockey team must overcome ma…
1529    'While we may earn a commission if you buy som…
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 13c2e7e42b0578ad19b5a0f7d368cbd7 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash c63d7602dc7bd8eab8dfb28201210629 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a3d168
925c019a9093273f64c30fca83
_____fit_transform_one - 30.6s, 0.5min

--------------------------------------------------------------------------
```

```
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x124 sparse matrix of type '<class
'numpy.int64'>'
        with 86173 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/13c2e7
e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86173 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/c63d76
02dc7bd8eab8dfb28201210629
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 6989c12b417d4e187a0705c5406e9fd7 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
```

```
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=5,
                stop_words='english'),
816     'One of NZ football's greats, Maia Jackman hop…
1706    'Upon hearing Anya Taylor-Joy was cast as Mad …
714     'Who knew that the most important game in the …
2953    'One of two Arthur V. Watkins Dam siphon pipes…
2756    'But the Mendocino Triple Junction is differen…
                            …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash da9392e7e4ebd93320e0c462e56b8c3d in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 0058343568055f92fb8dcd697ce8742e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/6989c1
2b417d4e187a0705c5406e9fd7
_____fit_transform_one - 31.0s, 0.5min

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x101 sparse matrix of type '<class
'numpy.int64'>'
        with 86333 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
```

```
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/da9392
e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86333 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/005834
3568055f92fb8dcd697ce8742e
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 30b89826e2709fd7172ecb47fd017235 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one


_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=5,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
```

```
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                              …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash b67c5ebb538693702733f9ff1cad8117 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 1c97eb58174e4f4c28a36a9a82a8ef9e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/30b898
26e2709fd7172ecb47fd017235
_____fit_transform_one - 29.7s, 0.5min
----------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x101 sparse matrix of type '<class
'numpy.int64'>'
        with 86025 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
```

```
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/b67c5e
bb538693702733f9ff1cad8117
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86025 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
        ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/1c97eb
58174e4f4c28a36a9a82a8ef9e
_____fit_transform_one - 0.0s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a4835b9f9cb0bc4d8ef1941e99538c92 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=5,
                stop_words='english'),
83       'Following a pandemic-induced two-year delay, …
2645     'Lead Stories:\n\n1. The Aftershock Festival s…
2293     'Weather Street Sweeping Suspended In Hoboken …
1725     'Robert Duvall has a supporting role in the pe…
2066     'Aircraft Returning to Field Causes 10-Acre Br…
                        …
774      'This weekend brings us a battle between ranke…
181      'The Bulldog Insider Podcast returns this week…
1166     'About Photo #4837929: Catherine, Princess of …
1614     'A listener wrote into Bobby Bones mailbag say…
2202     'The housing industry, from servicers to real …
```

```
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 4681ab0897cd7e442db82bfcd344da6c in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash ec902f6ce4a8d2c89e638c709fa86197 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a4835b
9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one - 30.0s, 0.5min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x101 sparse matrix of type '<class
'numpy.int64'>'
        with 85942 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/4681ab
0897cd7e442db82bfcd344da6c
_____fit_transform_one - 0.0s, 0.0min
_____
```

```
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 85942 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/ec902f
6ce4a8d2c89e638c709fa86197
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash df0901153bb4d711520110eca1209b0f in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=5,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                        …
774     'This weekend brings us a battle between ranke…
181     'The Bulldog Insider Podcast returns this week…
1166    'About Photo #4837929: Catherine, Princess of …
1614    'A listener wrote into Bobby Bones mailbag say…
2202    'The housing industry, from servicers to real …
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
```

```
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash cd929b39c968dcf0db6c1a52d3260aa1 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash e7e3126f4123212620a4b4c5b62fe4bb in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/df0901
153bb4d711520110eca1209b0f
_____fit_transform_one - 30.5s, 0.5min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x101 sparse matrix of type '<class
'numpy.int64'>'
        with 86199 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/cd929b
39c968dcf0db6c1a52d3260aa1
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86199 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
```

```
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/e7e312
6f4123212620a4b4c5b62fe4bb
_____fit_transform_one - 0.0s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 5310027d9fb89bb62f7011bcdaa3cbb8 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(CountVectorizer(analyzer=<function stemming_sent at
0x7fc38d43bee0>, min_df=5,
                stop_words='english'),
83      'Following a pandemic-induced two-year delay, …
2645    'Lead Stories:\n\n1. The Aftershock Festival s…
2293    'Weather Street Sweeping Suspended In Hoboken …
1725    'Robert Duvall has a supporting role in the pe…
2066    'Aircraft Returning to Field Causes 10-Acre Br…
                            …
1311    'East Rutherford, NJ - The New York Giants and…
2004    'Fire officials are working to contain a 30-ac…
2031    'The California Department of Insurance (CDI) …
237     'Kenya's only ice hockey team must overcome ma…
1529    'While we may earn a commission if you buy som…
Name: full_text, Length: 2016, dtype: object,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

```
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a90c20ac8ef7d1198c398e84d0cadd54 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 833fea65aa71e0730496eeed67719e24 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/531002
7d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one - 30.9s, 0.5min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TfidfTransformer(), <2016x102 sparse matrix of type '<class
'numpy.int64'>'
        with 86103 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a90c20
ac8ef7d1198c398e84d0cadd54
_____fit_transform_one - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=5, random_state=42), <2016x102
sparse matrix of type '<class 'numpy.float64'>'
        with 86103 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
```

```
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/833fea
65aa71e0730496eeed67719e24
_____fit_transform_one - 0.0s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash b128c2a109f0ec775c46a829a967741e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/076bfeb518760273c2b5a2ab9e0ae30a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86581 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/b128c2
a109f0ec775c46a829a967741e
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 02d29da19c759b19d5bef2126803f3d8 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/479b08de5d6276a93895a7fabc6d7f0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86266 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/02d29d
a19c759b19d5bef2126803f3d8
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash d4851dbdd301427fd6c938002abe339d in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86197 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
```
68

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/d4851d
bdd301427fd6c938002abe339d
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 33978fc9f48274d792ff2cedb164b1ee in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0689aec3861994d459ff91e20e36bd4c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x123
sparse matrix of type '<class 'numpy.float64'>'
        with 86455 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/33978f
c9f48274d792ff2cedb164b1ee
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 109ff0211cc21c90cb13c4fe894536fb in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86350 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
         ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/109ff0
211cc21c90cb13c4fe894536fb
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 180030a0223b29fcdc52690b5c7b8c76 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86499 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
         ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/180030
a0223b29fcdc52690b5c7b8c76
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash be4e1990c0e14667792a90da7759fe74 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
       with 86194 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/be4e19
90c0e14667792a90da7759fe74
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 9911c60dcecdf3aba2504190f50e4071 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86123 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/9911c6
0dcecdf3aba2504190f50e4071
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash f216ad50753f84a77d0152cfdc98a4a1 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86378 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
```

```
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f216ad
50753f84a77d0152cfdc98a4a1
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash b7dd7180fa2a3c90761aaf4ca9c36d90 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x102
sparse matrix of type '<class 'numpy.float64'>'
        with 86280 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
        ..
1311     1
2004     0
2031     0
237      1
1529     1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/b7dd71
80fa2a3c90761aaf4ca9c36d90
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a05d80b764b7eddc91a95adbff2e04e8 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86415 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a05d80
b764b7eddc91a95adbff2e04e8
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 5fcbc236775995d71ad82efd73fcb2d0 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86097 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/5fcbc2
36775995d71ad82efd73fcb2d0
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash d29bbb99b320d5a46f099d29af2a1e8d in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86016 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/d29bbb
99b320d5a46f099d29af2a1e8d
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 92b5cb5009cbe4511800b94213d96d3d in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d8d81e7f7ec3085591b5dbf2e1b36ce9
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
-------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x123
sparse matrix of type '<class 'numpy.float64'>'
        with 86276 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/92b5cb
5009cbe4511800b94213d96d3d
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 87d336d7f808bf3842f42692d7d7057a in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one cache loaded - 0.0s, 0.0min

-------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86173 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
```

76

```
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/87d336
d7f808bf3842f42692d7d7057a
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash d6e3e34eb0e53408f8a9405c0057e99d in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86333 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/d6e3e3
4eb0e53408f8a9405c0057e99d
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 8aa9589b9adbaeaa0cdcc39d734177a3 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/30b89826e2709fd7172ecb47fd017235
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86025 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/8aa958
9b9adbaeaa0cdcc39d734177a3
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 94ad13a77e5f3733ccad4126c3b787ec in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a4835b9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4681ab0897cd7e442db82bfcd344da6c
_____fit_transform_one cache loaded - 0.0s, 0.0min

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 85942 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/94ad13
a77e5f3733ccad4126c3b787ec
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 21052fe17e2b1f963679cf5c4d9ff566 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/df0901153bb4d711520110eca1209b0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/cd929b39c968dcf0db6c1a52d3260aa1
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86199 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/21052f
e17e2b1f963679cf5c4d9ff566
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 322aeb4d52d6315fdac6d699da369a75 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/5310027d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=30, random_state=42), <2016x102
sparse matrix of type '<class 'numpy.float64'>'
        with 86103 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
         ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/322aeb
4d52d6315fdac6d699da369a75
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 61b0893f407d2a8ac154ca4359d1f65e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/076bfeb518760273c2b5a2ab9e0ae30a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86581 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
         ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/61b089
3f407d2a8ac154ca4359d1f65e
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 4ed680612d1c56cafb423b443d7b887c in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/479b08de5d6276a93895a7fabc6d7f0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86266 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/4ed680
612d1c56cafb423b443d7b887c
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 899ab33447d87ac4fe305431502ccdbf in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86197 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/899ab3
3447d87ac4fe305431502ccdbf
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 320190b45d765771fb538105163786c9 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0689aec3861994d459ff91e20e36bd4c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x123
sparse matrix of type '<class 'numpy.float64'>'
        with 86455 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/320190
b45d765771fb538105163786c9
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash c903fc242bee543d83ec1d98ce28f6c7 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86350 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/c903fc
242bee543d83ec1d98ce28f6c7
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 3787453fce01a117bc2162fd9617a9ab in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86499 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
          ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/378745
3fce01a117bc2162fd9617a9ab
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash d9bd168779895ad3eb267f4a67b52036 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86194 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
          ..
774     1
181     1
1166    1
1614    1
```

```
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/d9bd16
8779895ad3eb267f4a67b52036
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 8e2eaf5b2647dbf84834fd2a8f0c9e0e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86123 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
        ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/8e2eaf
5b2647dbf84834fd2a8f0c9e0e
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 0639fc0c432237227ffd438cb0bdf99e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86378 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/0639fc
0c432237227ffd438cb0bdf99e
_____fit_transform_one - 0.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a59ea53bf44f777dc417e3ad91623eab in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x102
sparse matrix of type '<class 'numpy.float64'>'
        with 86280 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
```

```
1529     1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a59ea5
3bf44f777dc417e3ad91623eab
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 838df9f282c34fc4dc40f8ec89b3c65e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86415 stored elements in Compressed Sparse Row format>,
816      1
1706     1
714      1
2953     0
2756     0
        ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/838df9
f282c34fc4dc40f8ec89b3c65e
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 20a8b2d26073f2712876ce760a5f7d60 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86097 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
         ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/20a8b2
d26073f2712876ce760a5f7d60
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 58e868fc38b2108c3230b1dd22fb2790 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x122
sparse matrix of type '<class 'numpy.float64'>'
        with 86016 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
         ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/58e868
fc38b2108c3230b1dd22fb2790
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash e1d5d4ea45226f016aa96005be5d466f in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d8d81e7f7ec3085591b5dbf2e1b36ce9
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x123
sparse matrix of type '<class 'numpy.float64'>'
        with 86276 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/e1d5d4
ea45226f016aa96005be5d466f
_____fit_transform_one - 0.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 9d56212df179fd3550114fe07bf462b7 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x124
sparse matrix of type '<class 'numpy.float64'>'
        with 86173 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/9d5621
2df179fd3550114fe07bf462b7
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 35af7e4c3119e746234dc26bebc126c3 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86333 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/35af7e
4c3119e746234dc26bebc126c3
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 3e8fdd44d1f9e5190d5978ca3dbf561e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/30b89826e2709fd7172ecb47fd017235
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86025 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/3e8fdd
44d1f9e5190d5978ca3dbf561e
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash e0816e5138badbaefe3e888d023c739b in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a4835b9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4681ab0897cd7e442db82bfcd344da6c
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 85942 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/e0816e
5138badbaefe3e888d023c739b
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a32806978774ba93a34d8807647a79a3 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/df0901153bb4d711520110eca1209b0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/cd929b39c968dcf0db6c1a52d3260aa1
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x101
sparse matrix of type '<class 'numpy.float64'>'
        with 86199 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
```

```
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a32806
978774ba93a34d8807647a79a3
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 3569bc1271db7c4fb91a1c47960014cc in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/5310027d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(TruncatedSVD(n_components=80, random_state=42), <2016x102
sparse matrix of type '<class 'numpy.float64'>'
        with 86103 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/3569bc
1271db7c4fb91a1c47960014cc
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 9c8847e27ee511ccf2eeab6428dcddfa in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/076bfeb518760273c2b5a2ab9e0ae30a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
```

```
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86581 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/9c8847
e27ee511ccf2eeab6428dcddfa
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash d6e171edcf0be82d5185b931f6c33735 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/479b08de5d6276a93895a7fabc6d7f0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86266 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
```

```
          ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/d6e171
edcf0be82d5185b931f6c33735
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 210c5d71ae48056c33aa383b48d7a20a in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86197 stored elements in Compressed Sparse Row format>,
83   1
2645   0
2293   0
1725   1
2066   0
          ..
774   1
181   1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to

```
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/210c5d
71ae48056c33aa383b48d7a20a
_____fit_transform_one - 0.3s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash fd8aa6a60527dab09e782621f08e1ad6 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0689aec3861994d459ff91e20e36bd4c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x123 sparse matrix of type '<class 'numpy.float64'>'
        with 86455 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
         ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/fd8aa6
a60527dab09e782621f08e1ad6
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 0faef5727ddaffddcf2c02c73e1afdc8 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one
```

```
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86350 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/0faef5
727ddaffddcf2c02c73e1afdc8
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 6a7bf3188a7e965265a366dd87da04fe in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86499 stored elements in Compressed Sparse Row format>,
```

```
816      1
1706     1
714      1
2953     0
2756     0
         ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/6a7bf3
188a7e965265a366dd87da04fe
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 4ff4431c5f8cfa02c8589e0a85247fed in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86194 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
         ..
774      1
181      1
1166     1
1614     1
2202     0
```

```
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/4ff443
1c5f8cfa02c8589e0a85247fed
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 7ac4cfabf2bd12ff15d4e454f995ed4f in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86123 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/7ac4cf
abf2bd12ff15d4e454f995ed4f
_____fit_transform_one - 0.2s, 0.0min
```

```
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 5e4243404844b04eb993b9b0b02355f5 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86378 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/5e4243
404844b04eb993b9b0b02355f5
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 412d951cddea2a956ef7d2225792bd7e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

```
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x102 sparse matrix of type '<class 'numpy.float64'>'
        with 86280 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/412d95
1cddea2a956ef7d2225792bd7e
_____fit_transform_one - 0.3s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 9669e6b68f49230fabc2d474c8827bca in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
_____fit_transform_one cache loaded - 0.0s, 0.0min

--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86415 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
```

```
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/9669e6
b68f49230fabc2d474c8827bca
_____fit_transform_one - 0.2s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 27f64264bf4e1439b1d2b030b6a73a46 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86097 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
         ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

```
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/27f642
64bf4e1439b1d2b030b6a73a46
_____fit_transform_one - 0.2s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash f0ec111d496b885083df278630ef2356 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86016 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f0ec11
1d496b885083df278630ef2356
_____fit_transform_one - 0.3s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 93552e5b70ddf075d68a1ccd05ad044d in location
```

/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d8d81e7f7ec3085591b5dbf2e1b36ce9
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x123 sparse matrix of type '<class 'numpy.float64'>'
        with 86276 stored elements in Compressed Sparse Row format>,
83   1
2645   0
2293   0
1725   1
2066   0
        ..
774   1
181   1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/93552e
5b70ddf075d68a1ccd05ad044d
_____fit_transform_one - 0.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a3734177f6b3a150b3fa0cae3a6704e7 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),

```
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86173 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a37341
77f6b3a150b3fa0cae3a6704e7
_____fit_transform_one - 0.3s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 0dc034bf06eb747d2a48a4934567e00b in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86333 stored elements in Compressed Sparse Row format>,
816   1
1706   1
714   1
2953   0
2756   0
```

```
       ..
774    1
181    1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/0dc034
bf06eb747d2a48a4934567e00b
_____fit_transform_one - 0.2s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 6123d03f3e95f8da2e88e0c862e150f5 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/30b89826e2709fd7172ecb47fd017235
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86025 stored elements in Compressed Sparse Row format>,
83     1
2645   0
2293   0
1725   1
2066   0
       ..
774    1
181    1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
```

```
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/6123d0
3f3e95f8da2e88e0c862e150f5
_____fit_transform_one - 0.2s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a3ddb26f604524af393c9e8ad0dec661 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a4835b9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4681ab0897cd7e442db82bfcd344da6c
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
      with 85942 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
       ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a3ddb2
```

```
6f604524af393c9e8ad0dec661
_____fit_transform_one - 0.2s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 3c3cdf7e6ccb962c93f0f8a2845e12be in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/df0901153bb4d711520110eca1209b0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/cd929b39c968dcf0db6c1a52d3260aa1
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86199 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/3c3cdf
7e6ccb962c93f0f8a2845e12be
_____fit_transform_one - 0.2s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
```

```
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash dcbb36283bd566c082cbeba03d5c5585 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/5310027d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=5, random_state=42),
<2016x102 sparse matrix of type '<class 'numpy.float64'>'
        with 86103 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/dcbb36
283bd566c082cbeba03d5c5585
_____fit_transform_one - 0.3s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 348d02cd5e5e613b1511787bd21611ee in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/076bfeb518760273c2b5a2ab9e0ae30a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

```
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86581 stored elements in Compressed Sparse Row format>,
816      1
1706     1
714      1
2953     0
2756     0
         ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/348d02
cd5e5e613b1511787bd21611ee
_____fit_transform_one - 1.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 5d42441fd4a22f9fb72d861ec242b1ba in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/479b08de5d6276a93895a7fabc6d7f0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86266 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
         ..
```

```
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/5d4244
1fd4a22f9fb72d861ec242b1ba
_____fit_transform_one - 1.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash fe50ba670aea5b25931a8c7ef0cac7ca in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86197 stored elements in Compressed Sparse Row format>,

```
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.

```
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/fe50ba
670aea5b25931a8c7ef0cac7ca
_____fit_transform_one - 1.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 695c270623806c59a680822a03639cd2 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0689aec3861994d459ff91e20e36bd4c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x123 sparse matrix of type '<class 'numpy.float64'>'
      with 86455 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/695c27
0623806c59a680822a03639cd2
_____fit_transform_one - 1.1s, 0.0min
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 4dcb57dc4e274dce3591fc6d47e6ff21 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
```

```
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86350 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/4dcb57
dc4e274dce3591fc6d47e6ff21
_____fit_transform_one - 1.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 9bde49bf5a2ff733aa85a05726068bd6 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86499 stored elements in Compressed Sparse Row format>,
816     1
```

```
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/9bde49
bf5a2ff733aa85a05726068bd6
_____fit_transform_one - 1.1s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 806cd99cd81242100b6d523f7792a755 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86194 stored elements in Compressed Sparse Row format>,
83   1
2645   0
2293   0
1725   1
2066   0
        ..
774   1
181   1
```

```
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/806cd9
9cd81242100b6d523f7792a755
_____fit_transform_one - 1.1s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 6a4b2b7a927968fbed64e4ca0d05af2b in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86123 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
```

ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/6a4b2b 7a927968fbed64e4ca0d05af2b
_____fit_transform_one - 1.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at 0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func _fit_transform_one, argument hash 68f7ebb750b8abb70d53047a4e49b575 in location /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86378 stored elements in Compressed Sparse Row format>,
83   1
2645   0
2293   0
1725   1
2066   0
       ..
774   1
181   1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/68f7eb b750b8abb70d53047a4e49b575
_____fit_transform_one - 1.1s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at 0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func _fit_transform_one, argument hash 894833a1ba530118e3ac19c44aad1d21 in location /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

```
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x102 sparse matrix of type '<class 'numpy.float64'>'
        with 86280 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/894833
a1ba530118e3ac19c44aad1d21
_____fit_transform_one - 1.2s, 0.0min

WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash b31fc69db5deb2c3ea525d702575302f in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86415 stored elements in Compressed Sparse Row format>,
```

```
816      1
1706     1
714      1
2953     0
2756     0
         ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/b31fc6
9db5deb2c3ea525d702575302f
_____fit_transform_one - 1.2s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 81e30021a83732f5d3af48e25b925fc6 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86097 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
         ..
774      1
```

```
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/81e300
21a83732f5d3af48e25b925fc6
_____fit_transform_one - 1.2s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 0cc51771df3fde8b20c618a3a5783153 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86016 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
         ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

119

```
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/0cc517
71df3fde8b20c618a3a5783153
_____fit_transform_one - 1.2s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 2e94618385d293f796ab79e800071f2a in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d8d81e7f7ec3085591b5dbf2e1b36ce9
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one...
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x123 sparse matrix of type '<class 'numpy.float64'>'
        with 86276 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
       ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/2e9461
8385d293f796ab79e800071f2a
```

```
_____fit_transform_one - 1.2s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 31f5eeed4aa9c17f2a86f2682c3e9eff in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86173 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/31f5ee
ed4aa9c17f2a86f2682c3e9eff
_____fit_transform_one - 1.1s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
```

```
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 8a2ef794ff2d2a1021bd27ce1ce8a212 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86333 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/8a2ef7
94ff2d2a1021bd27ce1ce8a212
_____fit_transform_one - 1.1s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 63e7b1b1ca75cf1d4d47fb8812d0dadc in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/30b89826e2709fd7172ecb47fd017235
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

```
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86025 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/63e7b1
b1ca75cf1d4d47fb8812d0dadc
_____fit_transform_one - 1.1s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 685d84b82f975d9e366b7b90fce1b2d6 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a4835b9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4681ab0897cd7e442db82bfcd344da6c
_____fit_transform_one cache loaded - 0.0s, 0.0min

_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
```

```
              with 85942 stored elements in Compressed Sparse Row format>,
83        1
2645      0
2293      0
1725      1
2066      0
          ..
774       1
181       1
1166      1
1614      1
2202      0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/685d84
b82f975d9e366b7b90fce1b2d6

_____fit_transform_one - 1.1s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash fcc4ef974bce58f0a8734711ae3c1d1d in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/df0901153bb4d711520110eca1209b0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/cd929b39c968dcf0db6c1a52d3260aa1
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86199 stored elements in Compressed Sparse Row format>,
83        1
2645      0
2293      0
1725      1
2066      0
          ..
```

```
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/fcc4ef
974bce58f0a8734711ae3c1d1d
_____fit_transform_one - 1.1s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 37cb3df122a3a9ff9ec79a8d032f7ece in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/5310027d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=30, random_state=42),
<2016x102 sparse matrix of type '<class 'numpy.float64'>'
        with 86103 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

```
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/37cb3d
f122a3a9ff9ec79a8d032f7ece
_____fit_transform_one - 1.2s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash b134a9648fd2aecdb994804a5e84a072 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/076bfeb518760273c2b5a2ab9e0ae30a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86581 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/b134a9
648fd2aecdb994804a5e84a072
```

```
_____fit_transform_one - 5.5s, 0.1min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 090d6e4261b9d65cf2013b728d3727c1 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/479b08de5d6276a93895a7fabc6d7f0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86266 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/090d6e
4261b9d65cf2013b728d3727c1
_____fit_transform_one - 5.5s, 0.1min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
```

```
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 6da2efbe66d1bed4cda85973e2a8db39 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86197 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/6da2ef
be66d1bed4cda85973e2a8db39
_____fit_transform_one - 5.5s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 3dc97b032c73693d6ed8ad8e0eedd157 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0689aec3861994d459ff91e20e36bd4c
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

```
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x123 sparse matrix of type '<class 'numpy.float64'>'
        with 86455 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/3dc97b
032c73693d6ed8ad8e0eedd157
_____fit_transform_one - 5.4s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 76279acbe6b0786ef42c85f077cd31cc in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
```

```
          with 86350 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
         ..
1311     1
2004     0
2031     0
237      1
1529     1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/76279a
cbe6b0786ef42c85f077cd31cc
_____fit_transform_one - 5.4s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash d149aec1a08918e121fbe86db773fa2a in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86499 stored elements in Compressed Sparse Row format>,
816   1
1706   1
714   1
2953   0
2756   0
         ..

130

```
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/d149ae
c1a08918e121fbe86db773fa2a
_____fit_transform_one - 5.4s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash f9d07dcb6f92e1f26571d001806af949 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86194 stored elements in Compressed Sparse Row format>,
83   1
2645   0
2293   0
1725   1
2066   0
        ..
774   1
181   1
1166   1
1614   1
2202   0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

```
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f9d07d
cb6f92e1f26571d001806af949
_____fit_transform_one - 5.4s, 0.1min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 351b5fbce49f4a2cbb1e35d80474b66b in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86123 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
       ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/351b5f
bce49f4a2cbb1e35d80474b66b
```

```
_____fit_transform_one - 5.4s, 0.1min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 86b58a70591b5476cb2f925a8f184b1e in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
       with 86378 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/86b58a
70591b5476cb2f925a8f184b1e
_____fit_transform_one - 7.0s, 0.1min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
```

```
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 209405c1f66464cd5850df18089c38fe in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x102 sparse matrix of type '<class 'numpy.float64'>'
        with 86280 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/209405
c1f66464cd5850df18089c38fe
_____fit_transform_one - 5.5s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 4edf24bb59e2ac890be2796b63ea5d8b in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

```
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86415 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/4edf24
bb59e2ac890be2796b63ea5d8b
_____fit_transform_one - 5.5s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash faf9f9f34f79f95743d3f756965345db in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
```

```
            with 86097 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/faf9f9
f34f79f95743d3f756965345db
_____fit_transform_one - 5.4s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 50160766389ab9a04c27cd1478a3350d in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x122 sparse matrix of type '<class 'numpy.float64'>'
        with 86016 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
```

```
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/501607
66389ab9a04c27cd1478a3350d
_____fit_transform_one - 5.5s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash caaa056ce6320f68f207a40fbcde5b38 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d8d81e7f7ec3085591b5dbf2e1b36ce9
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x123 sparse matrix of type '<class 'numpy.float64'>'
        with 86276 stored elements in Compressed Sparse Row format>,
83       1
2645     0
2293     0
1725     1
2066     0
        ..
774      1
181      1
1166     1
1614     1
2202     0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/caaa05
6ce6320f68f207a40fbcde5b38
_____fit_transform_one - 5.4s, 0.1min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 0f471637d7cb9faf3152978eb7ee58db in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x124 sparse matrix of type '<class 'numpy.float64'>'
        with 86173 stored elements in Compressed Sparse Row format>,
83   1
2645   0
2293   0
1725   1
2066   0
        ..
1311   1
2004   0
2031   0
237   1
1529   1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/0f4716
37d7cb9faf3152978eb7ee58db

```
_____fit_transform_one - 5.4s, 0.1min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash f98fabcdb766c63303d4ddd07fb1cf23 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86333 stored elements in Compressed Sparse Row format>,
816     1
1706    1
714     1
2953    0
2756    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/f98fab
cdb766c63303d4ddd07fb1cf23
_____fit_transform_one - 5.4s, 0.1min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
```

```
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 2fd7456837b00ede495c9e0fc691147c in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/30b89826e2709fd7172ecb47fd017235
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 86025 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
       ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/2fd745
6837b00ede495c9e0fc691147c
_____fit_transform_one - 5.4s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 3bd15aeec2ef6791586ad91320fe56e6 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a4835b9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

```
[Memory]0.0s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4681ab0897cd7e442db82bfcd344da6c
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
        with 85942 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/3bd15a
eec2ef6791586ad91320fe56e6
_____fit_transform_one - 5.4s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash 537d80e9280f897ec7e7948e505a04d4 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/df0901153bb4d711520110eca1209b0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/cd929b39c968dcf0db6c1a52d3260aa1
_____fit_transform_one cache loaded - 0.0s, 0.0min
_____
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x101 sparse matrix of type '<class 'numpy.float64'>'
```

```
             with 86199 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
774     1
181     1
1166    1
1614    1
2202    0
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/537d80
e9280f897ec7e7948e505a04d4

_____fit_transform_one - 5.4s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(
WARNING:root:[MemorizedFunc(func=<function _fit_transform_one at
0x7fc3952114c0>, location=/tmp/tmpco8gx3in/joblib)]: Computing func
_fit_transform_one, argument hash a213cd8e91cfd8bea515aa78d1058b76 in location
/tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/5310027d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
_____fit_transform_one cache loaded - 0.0s, 0.0min
--------------------------------------------------------------------------------
[Memory] Calling sklearn.pipeline._fit_transform_one…
_fit_transform_one(NMF(init='random', n_components=80, random_state=42),
<2016x102 sparse matrix of type '<class 'numpy.float64'>'
        with 86103 stored elements in Compressed Sparse Row format>,
83      1
2645    0
2293    0
1725    1
2066    0
        ..
```

```
1311    1
2004    0
2031    0
237     1
1529    1
Name: root_label, Length: 2016, dtype: int64,
None, message_clsname='Pipeline', message=None)

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

Persisting in /tmp/tmpco8gx3in/joblib/sklearn/pipeline/_fit_transform_one/a213cd
8e91cfd8bea515aa78d1058b76
_____fit_transform_one - 5.4s, 0.1min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/076bfeb518760273c2b5a2ab9e0ae30a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a6aa70ad3df877b70827ac7942345d01
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/479b08de5d6276a93895a7fabc6d7f0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/cf4a135334017b1dd7d32f4509976431
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f1cb1c162b32e33671aa70df9ed1a1e4
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
```

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b/sklearn/pipeline/_fit_transform_one/0689aec3861994d459ff91e20e36bd4c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/65f58cd03cd9ae9d073f3cbea55c9c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ec49347cddcb2433d9392352c1e0224e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/dfeb7b8df9aeee89e22cbeeb56d7f5c7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4649daff5b7d9dcb8202874cb037d9b9
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/45583dac6f0c68115c21f27733a0404a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b1a188b272d96bc5af22db1bb9dc2023
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d6b53ca13d2762a763be71caace83f5c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3fa60a8dc9358b904fd20e604f1197f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/034fdbf093724b31106c01252c55b4df
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/15b39cc46c784ed51ad73098a3c5fe73
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d8d81e7f7ec3085591b5dbf2e1b36ce9
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
```

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b/sklearn/pipeline/_fit_transform_one/f0155feeb9fc742d248cc22d51c438f3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c63d7602dc7bd8eab8dfb28201210629
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0058343568055f92fb8dcd697ce8742e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/30b89826e2709fd7172ecb47fd017235
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1c97eb58174e4f4c28a36a9a82a8ef9e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a4835b9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4681ab0897cd7e442db82bfcd344da6c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ec902f6ce4a8d2c89e638c709fa86197
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/df0901153bb4d711520110eca1209b0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/cd929b39c968dcf0db6c1a52d3260aa1
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/e7e3126f4123212620a4b4c5b62fe4bb
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/5310027d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/833fea65aa71e0730496eeed67719e24
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/076bfeb518760273c2b5a2ab9e0ae30a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b128c2a109f0ec775c46a829a967741e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/02d29da19c759b19d5bef2126803f3d8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/33978fc9f48274d792ff2cedb164b1ee
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/109ff0211cc21c90cb13c4fe894536fb
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/b7dd7180fa2a3c90761aaf4ca9c36d90
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/076bfeb518760273c2b5a2ab9e0ae30a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/3787453fce01a117bc2162fd9617a9ab
_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8e2eaf5b2647dbf84834fd2a8f0c9e0e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0639fc0c432237227ffd438cb0bdf99e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a59ea53bf44f777dc417e3ad91623eab
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/838df9f282c34fc4dc40f8ec89b3c65e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/20a8b2d26073f2712876ce760a5f7d60
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/58e868fc38b2108c3230b1dd22fb2790
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/e1d5d4ea45226f016aa96005be5d466f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/9d56212df179fd3550114fe07bf462b7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/35af7e4c3119e746234dc26bebc126c3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/30b89826e2709fd7172ecb47fd017235
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3e8fdd44d1f9e5190d5978ca3dbf561e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/e0816e5138badbaefe3e888d023c739b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/cd929b39c968dcf0db6c1a52d3260aa1
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3569bc1271db7c4fb91a1c47960014cc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/9c8847e27ee511ccf2eeab6428dcddfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/479b08de5d6276a93895a7fabc6d7f0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/d6e171edcf0be82d5185b931f6c33735
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/210c5d71ae48056c33aa383b48d7a20a
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0689aec3861994d459ff91e20e36bd4c
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/fd8aa6a60527dab09e782621f08e1ad6
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0faef5727ddaffddcf2c02c73e1afdc8
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6a7bf3188a7e965265a366dd87da04fe
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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                                      _fit_transform_one cache loaded - 0.0s, 0.0min
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b/sklearn/pipeline/_fit_transform_one/4ff4431c5f8cfa02c8589e0a85247fed
                                      _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/7ac4cfabf2bd12ff15d4e454f995ed4f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/5e4243404844b04eb993b9b0b02355f5
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/412d951cddea2a956ef7d2225792bd7e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/9669e6b68f49230fabc2d474c8827bca
_____fit_transform_one cache loaded - 0.0s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/27f64264bf4e1439b1d2b030b6a73a46
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                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f0ec111d496b885083df278630ef2356
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d8d81e7f7ec3085591b5dbf2e1b36ce9
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/93552e5b70ddf075d68a1ccd05ad044d
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3734177f6b3a150b3fa0cae3a6704e7
                                        _fit_transform_one cache loaded - 0.0s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
                                        _fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0dc034bf06eb747d2a48a4934567e00b
                                        _fit_transform_one cache loaded - 0.0s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/30b89826e2709fd7172ecb47fd017235
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6123d03f3e95f8da2e88e0c862e150f5
_____fit_transform_one cache loaded - 0.0s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a4835b9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/df0901153bb4d711520110eca1209b0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3c3cdf7e6ccb962c93f0f8a2845e12be
_____fit_transform_one cache loaded - 0.0s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/dcbb36283bd566c082cbeba03d5c5585
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/2d51dfd1b0871e4705fd069ad7d99896
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/348d02cd5e5e613b1511787bd21611ee
_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/695c270623806c59a680822a03639cd2
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4dcb57dc4e274dce3591fc6d47e6ff21
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/9bde49bf5a2ff733aa85a05726068bd6
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6a4b2b7a927968fbed64e4ca0d05af2b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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  warnings.warn(

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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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  warnings.warn(

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ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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  warnings.warn(

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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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  warnings.warn(

[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/dfeb7b8df9aeee89e22cbeeb56d7f5c7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4649daff5b7d9dcb8202874cb037d9b9
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/45583dac6f0c68115c21f27733a0404a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b1a188b272d96bc5af22db1bb9dc2023
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/be88d13abbb2dad4a1805059295820bd
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d6b53ca13d2762a763be71caace83f5c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3f7d71343053a4a0985f5aa43936e61
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/af3d70d01a84d469782cba411b329eb5
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/c3fa60a8dc9358b904fd20e604f1197f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/f54c95157b03f99ed30eb874256efd6a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/034fdbf093724b31106c01252c55b4df
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/15b39cc46c784ed51ad73098a3c5fe73
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f0155feeb9fc742d248cc22d51c438f3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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b/sklearn/pipeline/_fit_transform_one/c63d7602dc7bd8eab8dfb28201210629
_____fit_transform_one cache loaded - 0.0s, 0.0min
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b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1c97eb58174e4f4c28a36a9a82a8ef9e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/479b08de5d6276a93895a7fabc6d7f0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/02d29da19c759b19d5bef2126803f3d8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f216ad50753f84a77d0152cfdc98a4a1
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a0ec2f4457af5c41ad3eaabcef4ba72d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7b233ebf12d1b3049dbcaef5781d87b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/572879036cf41750502ddbe131981596
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/a7e5f48c01b1345d62c0bdc4afeac20c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d29bbb99b320d5a46f099d29af2a1e8d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b7d970432272da283029c6ce356c4101
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/87d336d7f808bf3842f42692d7d7057a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/da9392e7e4ebd93320e0c462e56b8c3d
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/b67c5ebb538693702733f9ff1cad8117
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8aa9589b9adbaeaa0cdcc39d734177a3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a4835b9f9cb0bc4d8ef1941e99538c92
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4681ab0897cd7e442db82bfcd344da6c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/94ad13a77e5f3733ccad4126c3b787ec
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/df0901153bb4d711520110eca1209b0f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/5310027d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a90c20ac8ef7d1198c398e84d0cadd54
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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b/sklearn/pipeline/_fit_transform_one/38af495f7e1a99305bdb0f26b8496a34
_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8b544da7ca1521fd2925f24c65c863e3
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ff798cafcdf95e1f8aae09348c9f5c9b
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/899ab33447d87ac4fe305431502ccdbf
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/0689aec3861994d459ff91e20e36bd4c
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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b/sklearn/pipeline/_fit_transform_one/8e2eaf5b2647dbf84834fd2a8f0c9e0e
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d8d81e7f7ec3085591b5dbf2e1b36ce9
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/e1d5d4ea45226f016aa96005be5d466f
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/13c2e7e42b0578ad19b5a0f7d368cbd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/5310027d9fb89bb62f7011bcdaa3cbb8
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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  warnings.warn(

[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/a3d168925c019a9093273f64c30fca83
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/0f471637d7cb9faf3152978eb7ee58db
_____fit_transform_one cache loaded - 0.0s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/6989c12b417d4e187a0705c5406e9fd7
_____fit_transform_one cache loaded - 0.0s, 0.0min
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.1s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
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[Memory]0.1s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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[Memory]0.1s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min     : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/838df9f282c34fc4dc40f8ec89b3c65e
_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
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_____fit_transform_one cache loaded - 0.0s, 0.0min
/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
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    warnings.warn(

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[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
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b/sklearn/pipeline/_fit_transform_one/420245a5453def1a56b325501e12c6a6
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3dc97b032c73693d6ed8ad8e0eedd157
_____fit_transform_one cache loaded - 0.0s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/454e885ca9bfa6e0290a9d62a83c9afc
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/4fa77ed19eed0447e10fb2e3b8f222b7
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/76279acbe6b0786ef42c85f077cd31cc
_____fit_transform_one cache loaded - 0.0s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f7d700ab839a988889090b6440890bfa
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/8dc6b1a7a58e0297b033da5c3a02b112
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/d149aec1a08918e121fbe86db773fa2a
_____fit_transform_one cache loaded - 0.0s, 0.0min

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/f87040235d2c5d94093dbb11559b0d8a
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/295da239413c9f20b006fee38d8bf0ba
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min   : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli

```
b/sklearn/pipeline/_fit_transform_one/f9d07dcb6f92e1f26571d001806af949
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

```
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/3835ec60282ebea6371d7b95f1676846
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/1ed61253d0f77ca0d2167debb20f9744
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.1s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/351b5fbce49f4a2cbb1e35d80474b66b
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

/usr/local/lib/python3.8/dist-packages/sklearn/decomposition/_nmf.py:1637:
ConvergenceWarning: Maximum number of iterations 200 reached. Increase it to
improve convergence.
  warnings.warn(

```
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/19ba5b58a23a03bd9a6973387ec3da80
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/ecd74be361c7dffd2e3355b0a462b872
_____fit_transform_one cache loaded - 0.0s, 0.0min
[Memory]0.0s, 0.0min    : Loading _fit_transform_one from /tmp/tmpco8gx3in/jobli
b/sklearn/pipeline/_fit_transform_one/86b58a70591b5476cb2f925a8f184b1e
_____fit_transform_one cache loaded - 0.0s, 0.0min
```

```python
[ ]: CV.best_params_
```

```
[ ]: {'clf': SVC(C=100, kernel='linear', random_state=42),
     'reduce_dim': TruncatedSVD(n_components=30, random_state=42),
     'vect__analyzer': <function __main__.stemming_sent(text)>,
     'vect__min_df': 3}
```

9.0.1 What are the 5 best combinations? Report their performances on the testing set.

```python
[ ]: for id in range(0,len(CV.cv_results_["rank_test_score"])):
       if CV.cv_results_["rank_test_score"][id] <=5:
         print(CV.cv_results_["rank_test_score"][id])
         print(CV.cv_results_["params"][id])
         print(CV.cv_results_["mean_test_score"][id])
```

```
1
{'clf': SVC(C=100, kernel='linear', random_state=42), 'reduce_dim':
TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function
stemming_sent at 0x7efedc920040>, 'vect__min_df': 3}
0.826984126984127
1
{'clf': SVC(C=100, kernel='linear', random_state=42), 'reduce_dim':
TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function
stemming_sent at 0x7efedc920040>, 'vect__min_df': 5}
0.826984126984127
1
{'clf': LogisticRegression(C=10, max_iter=100000, penalty='l1', random_state=42,
                   solver='liblinear'), 'reduce_dim':
TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function
stemming_sent at 0x7efedc920040>, 'vect__min_df': 3}
0.826984126984127
4
{'clf': LogisticRegression(C=10, max_iter=100000, penalty='l1', random_state=42,
                   solver='liblinear'), 'reduce_dim':
TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function
stemming_sent at 0x7efedc920040>, 'vect__min_df': 5}
0.8265873015873015
5
{'clf': LogisticRegression(C=100, max_iter=100000, random_state=42,
solver='liblinear'), 'reduce_dim': TruncatedSVD(n_components=30,
random_state=42), 'vect__analyzer': <function stemming_sent at 0x7efedc920040>,
'vect__min_df': 3}
0.8218253968253968
5
{'clf': LogisticRegression(C=100, max_iter=100000, random_state=42,
solver='liblinear'), 'reduce_dim': TruncatedSVD(n_components=30,
random_state=42), 'vect__analyzer': <function stemming_sent at 0x7efedc920040>,
'vect__min_df': 5}
0.8218253968253968
```

9.0.2 What are the 5 best combinations? Report their performances on the testing set.

(Rank)

- 1 (3 models with same accuracy)

  {'clf': SVC(C=100, kernel='linear', random_state=42), 'reduce_dim': TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function stemming_sent at 0x0000020686664EE0>, 'vect__min_df': 3}

  {'clf': SVC(C=100, kernel='linear', random_state=42), 'reduce_dim': TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function stemming_sent at 0x0000020686664EE0>, 'vect__min_df': 5}

{'clf': LogisticRegression(C=10, max_iter=100000, penalty='l1', random_state=42, solver='liblinear'), 'reduce_dim': TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function stemming_sent at 0x0000020686664EE0>, 'vect__min_df': 3}

accuracy: 0.826984126984127

- 4

{'clf': LogisticRegression(C=10, max_iter=100000, penalty='l1', random_state=42, solver='liblinear'), 'reduce_dim': TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function stemming_sent at 0x0000020686664EE0>, 'vect__min_df': 5}

accuracy: 0.8265873015873015

- 5 (2 models with same accuracy)

{'clf': LogisticRegression(C=100, max_iter=100000, random_state=42, solver='liblinear'), 'reduce_dim': TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function stemming_sent at 0x0000020686664EE0>, 'vect__min_df': 3}

{'clf': LogisticRegression(C=100, max_iter=100000, random_state=42, solver='liblinear'), 'reduce_dim': TruncatedSVD(n_components=30, random_state=42), 'vect__analyzer': <function stemming_sent at 0x0000020686664EE0>, 'vect__min_df': 5}

accuracy: 0.8218253968253968

10   Question 9

```
train_multi, test_multi = train_test_split(df[["full_text","leaf_label"]],␣
 ↪test_size=0.2)
df['full_text'].head()
print("train_multi shape:", train_multi.shape)
print("test_multi shape:", test_multi.shape)
```

```
train_multi shape: (2520, 2)
test_multi shape: (630, 2)
```

```
X_train_multi = train_multi['full_text']
X_test_multi = test_multi['full_text']

wnl = WordNetLemmatizer()
vec = CountVectorizer(stop_words='english', min_df=3)
tfidf = TfidfTransformer()

X_train_lemma_m = []
X_test_lemma_m = []
for i in range(len(train_multi)):
  # print(lemmatize_sent(train.iloc[i]['full_text']))
  X_train_lemma_m.append(lemmatize_sent(train_multi.iloc[i]['full_text']))
```

```
for i in range(len(test_multi)):
    X_test_lemma_m.append(lemmatize_sent(test_multi.iloc[i]['full_text']))

X_train_vec_m = vec.fit_transform(X_train_lemma_m)
X_test_vec_m = vec.transform(X_test_lemma_m)
X_train_tfidf_m = tfidf.fit_transform(X_train_vec_m)
X_test_tfidf_m = tfidf.transform(X_test_vec_m)
svd = TruncatedSVD(n_components=50, random_state=42)
X_train_LSI_m = svd.fit_transform(X_train_tfidf_m)
X_test_LSI_m = svd.transform(X_test_tfidf_m)
```

10.0.1 Perform Naive Bayes classification and multiclass SVM classification (with both One VS One and One VS the rest methods described above) and report the confusion matrix and calculate the accuracy, recall, precision and F-1 score of your classifiers. How did you resolve the class imbalance issue in the One VS the rest model?

- We use the library sklearn.multiclass to implement the one vs rest model. Basically, It takes the original binary svm model as input.

```
[ ]: map_row_to_class = {"chess":0, "cricket":1, "hockey":2, "soccer":3,
     "football":4, "%22forest%20fire%22":5, "flood":6, "earthquake":7,
     "drought":8}
     y_train_multi = train_multi['leaf_label'].map(map_row_to_class)
     y_test_multi = test_multi['leaf_label'].map(map_row_to_class)

     print(y_train_multi)

     gnb_multi = GaussianNB()
     gnb_multi.fit(X_train_LSI_m, y_train_multi)
     gnb_multi_y_pred = gnb_multi.predict(X_test_LSI_m)
```

```
252     2
2488    7
2953    8
2335    6
101     2
       ..
1386    3
5       2
1437    0
110     2
495     1
Name: leaf_label, Length: 2520, dtype: int64
```

```
[ ]: leaf_labels = ["chess", "cricket", "hockey", "soccer",
     "football", "%22forest%20fire%22", "flood", "earthquake",
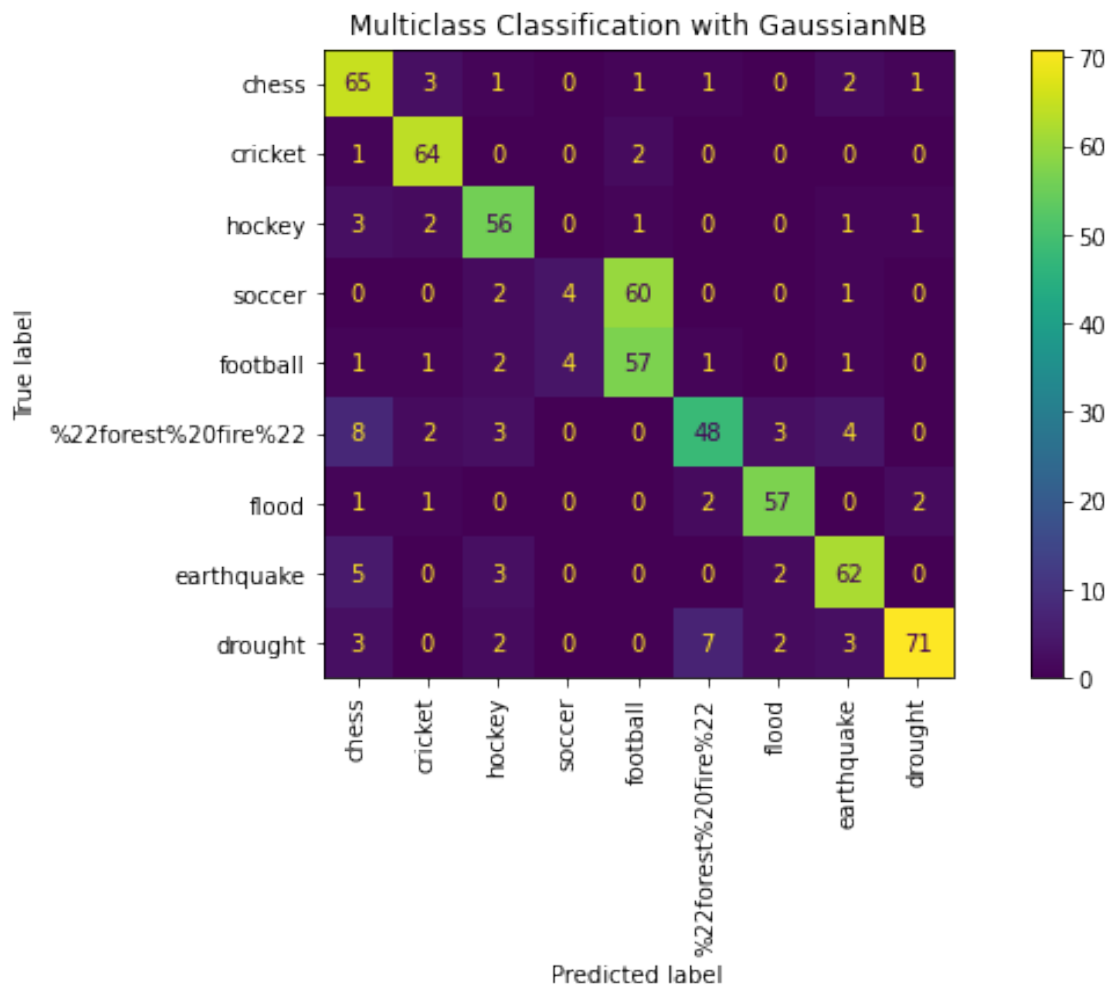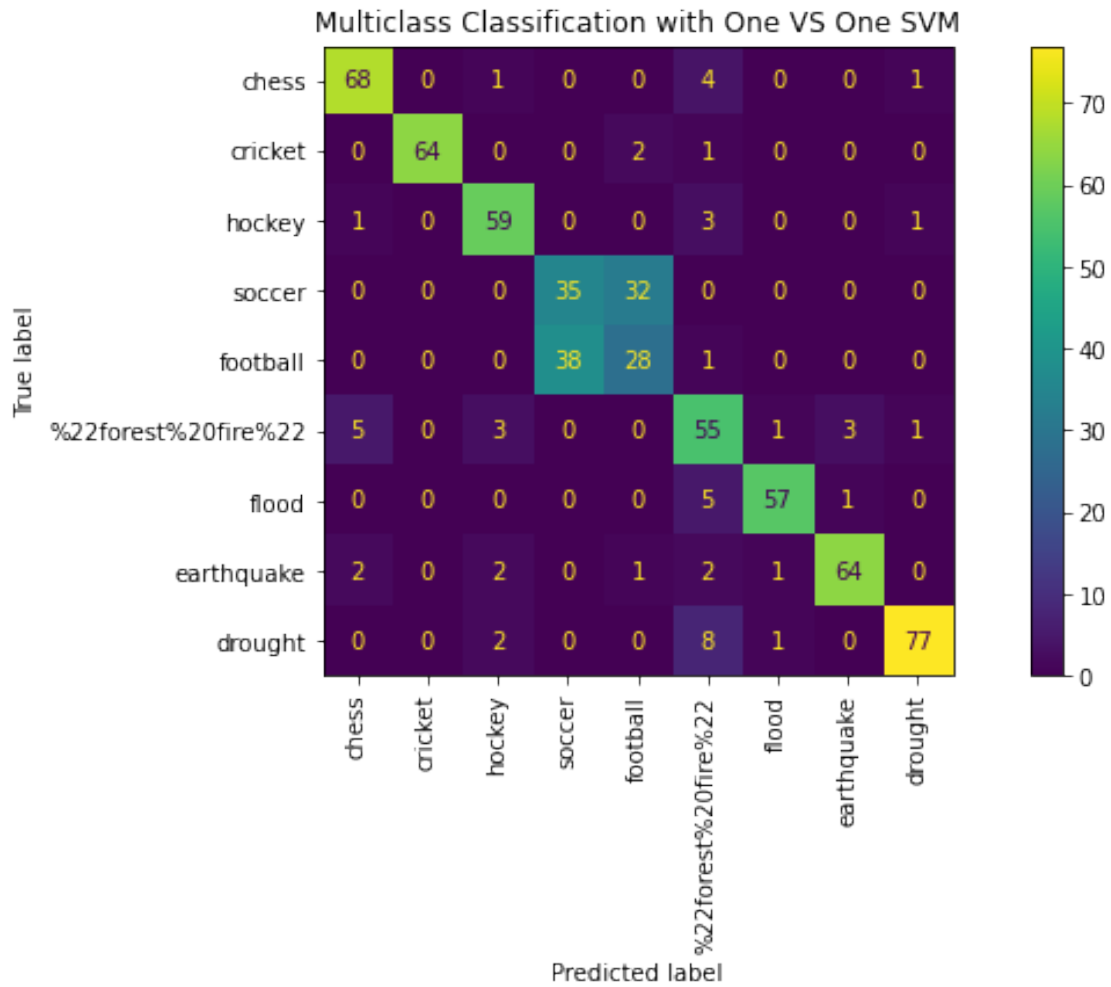```

```
"drought"]

plot_confusion_matrix(gnb_multi, X_test_LSI_m, y_test_multi,␣
 ↪display_labels=leaf_labels)
plt.xticks(rotation=90)
plt.title('Multiclass Classification with GaussianNB')
plt.show()

print_multi_result("Multiclass Classification with GaussianNB", y_test_multi,␣
 ↪gnb_multi_y_pred)
```

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

```
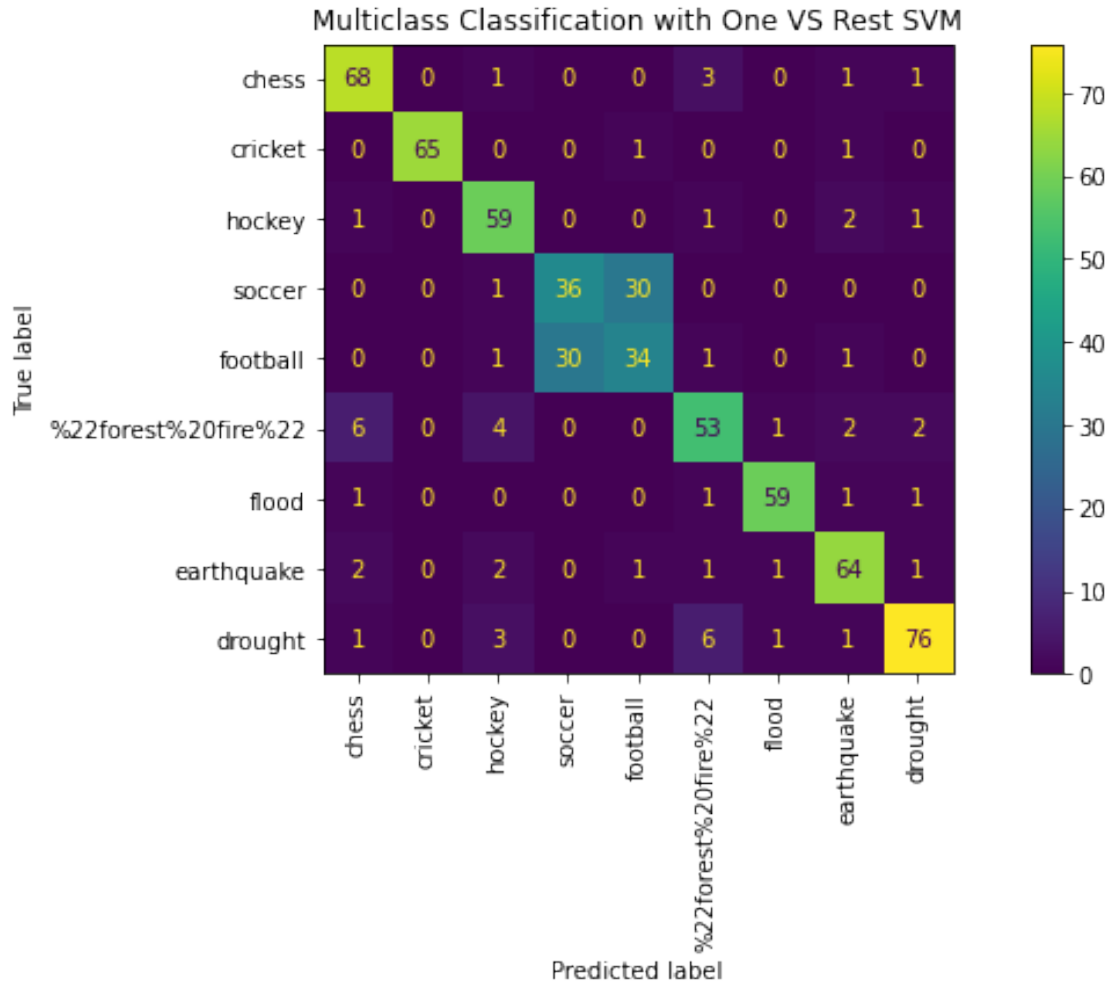Multiclass Classification with GaussianNB :
Accuracy: 0.7682539682539683
Recall: 0.7682539682539683
Precision: 0.7715769757065303
F1-Score: 0.7435615496183319
```

```python
[ ]: svm_ovo = OneVsOneClassifier(svm.LinearSVC(random_state=42))
     svm_ovr = OneVsRestClassifier(svm.LinearSVC(random_state=42))

     # fit the model
     svm_ovo.fit(X_train_LSI_m, y_train_multi)
     svm_ovr.fit(X_train_LSI_m, y_train_multi)

     # predict the test data
     svm_ovo_pred = svm_ovo.predict(X_test_LSI_m)
     svm_ovr_pred = svm_ovr.predict(X_test_LSI_m)
```

```python
[ ]: plot_confusion_matrix(svm_ovo, X_test_LSI_m, y_test_multi,␣
      ↪display_labels=leaf_labels)
     plt.xticks(rotation=90)
     plt.title('Multiclass Classification with One VS One SVM')
     plt.show()

     plot_confusion_matrix(svm_ovr, X_test_LSI_m, y_test_multi,␣
      ↪display_labels=leaf_labels)
     plt.xticks(rotation=90)
     plt.title('Multiclass Classification with One VS Rest SVM')
     plt.show()

     print_multi_result("Multiclass Classification with One VS One SVM",␣
      ↪y_test_multi, svm_ovo_pred)
     print_multi_result("Multiclass Classification with One VS Rest SVM",␣
      ↪y_test_multi, svm_ovr_pred)
```

```
/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)
```

Multiclass Classification with One VS One SVM

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

Multiclass Classification with One VS One SVM :
Accuracy: 0.8047619047619048
Recall: 0.8047619047619048
Precision: 0.8113115535782154
F1-Score: 0.8068876370648244

Multiclass Classification with One VS Rest SVM :
Accuracy: 0.8158730158730159
Recall: 0.8158730158730159
Precision: 0.8161616571017086
F1-Score: 0.8154503193647489

10.0.2 Do you observe any structure in the confusion matrix? Are there distinct visible blocks on the major diagonal? What does this mean?

A:

Yes, there are distinct visible blocks on the major diagonal. In which means that the performance of this model should be not bad, it predict each labels correctly with a good accuracy.

10.0.3 Based on your observation from the previous part, suggest a subset of labels that should be merged into a new larger label and recompute the accuracy and plot the confusion matrix. How did the accuracy change in One VS One and One VS the rest?

A:

Yes, we get a high error rate on the label **"soccer"** and **"football"** based on the performance. Maybe we can merge these two labels together.

After merging the labels, we can find that the accuracy get increased in both the One VS One and One VS the rest.

There is approximately a **0.1** increase in both the models.

```python
map_row_to_class = {"chess":0, "cricket":1, "hockey":2, "soccer":3,
"football":3, "%22forest%20fire%22":4, "flood":5, "earthquake":6,
"drought":7}
y_train_multi = train_multi['leaf_label'].map(map_row_to_class)
y_test_multi = test_multi['leaf_label'].map(map_row_to_class)
print(y_train_multi)
gnb_multi = GaussianNB()
gnb_multi.fit(X_train_LSI_m, y_train_multi)
gnb_multi_y_pred = gnb_multi.predict(X_test_LSI_m)
```

```
252      2
2488     6
2953     7
2335     5
101      2
        ..
1386     3
5        2
1437     0
110      2
495      1
Name: leaf_label, Length: 2520, dtype: int64
```

```python
leaf_labels = ["chess", "cricket", "hockey", "soccer and football",
"%22forest%20fire%22", "flood", "earthquake",
"drought"]
plot_confusion_matrix(gnb_multi, X_test_LSI_m, y_test_multi,
  ↪display_labels=leaf_labels)
plt.xticks(rotation=90)
plt.title('Multiclass Classification with GaussianNB')
plt.show()
```

```
print_multi_result("Multiclass Classification with GaussianNB using new␣
 ↪labels", y_test_multi, gnb_multi_y_pred)
```

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)
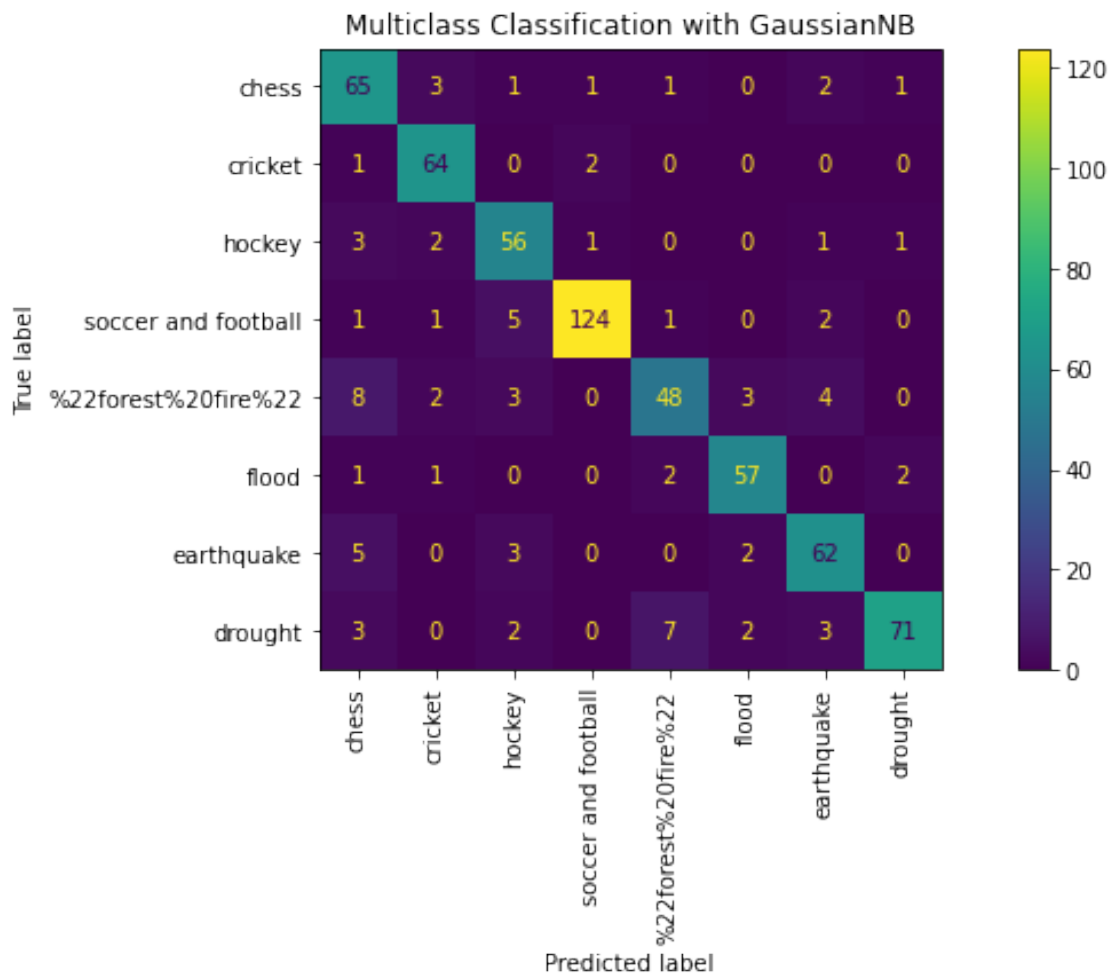

```
Multiclass Classification with GaussianNB using new labels :
Accuracy: 0.8682539682539683
Recall: 0.8682539682539683
Precision: 0.8731777495849721
F1-Score: 0.8684237224543343
```

```python
svm_ovo = OneVsOneClassifier(svm.LinearSVC(random_state=42))
svm_ovr = OneVsRestClassifier(svm.LinearSVC(random_state=42))

# fit the model
svm_ovo.fit(X_train_LSI_m, y_train_multi)
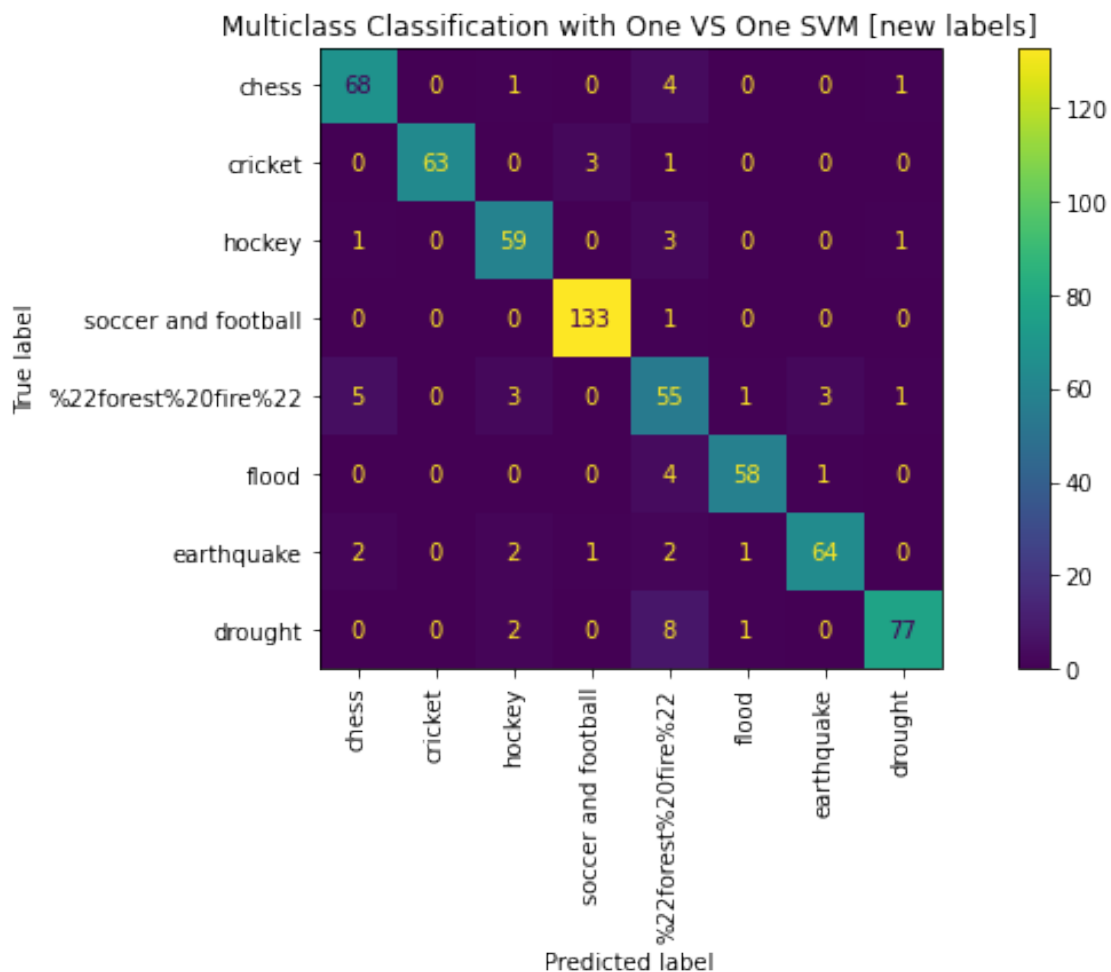svm_ovr.fit(X_train_LSI_m, y_train_multi)

# predict the test data
svm_ovo_pred = svm_ovo.predict(X_test_LSI_m)
svm_ovr_pred = svm_ovr.predict(X_test_LSI_m)
```

```python
plot_confusion_matrix(svm_ovo, X_test_LSI_m, y_test_multi,
 ↪display_labels=leaf_labels)
plt.xticks(rotation=90)
plt.title('Multiclass Classification with One VS One SVM [new labels]')
plt.show()

plot_confusion_matrix(svm_ovr, X_test_LSI_m, y_test_multi,
 ↪display_labels=leaf_labels)
plt.xticks(rotation=90)
plt.title('Multiclass Classification with One VS Rest SVM [new labels]')
plt.show()

print_multi_result("Multiclass Classification with One VS One SVM [new
 ↪labels]", y_test_multi, svm_ovo_pred)
print_multi_result("Multiclass Classification with One VS Rest SVM [new
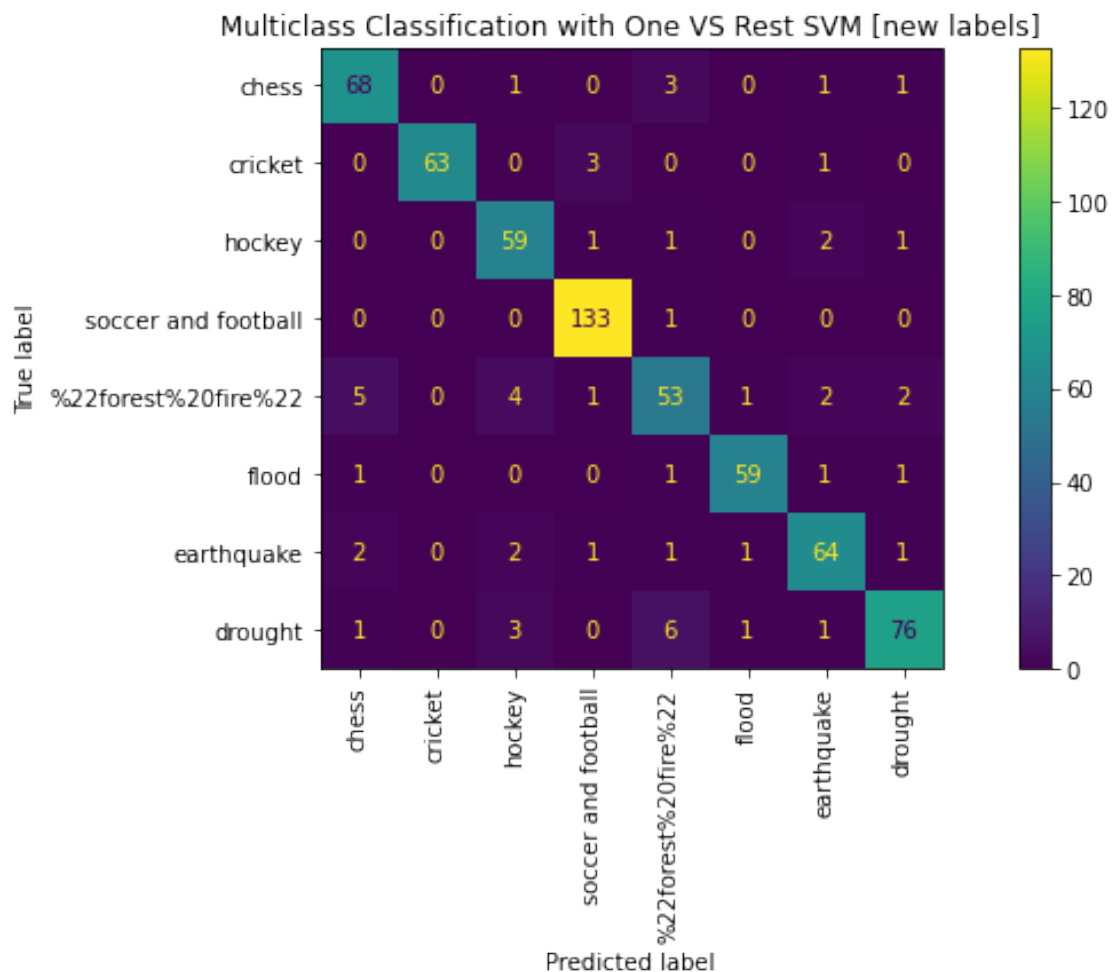 ↪labels]", y_test_multi, svm_ovr_pred)
```

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

Multiclass Classification with One VS One SVM [new labels]

	chess	cricket	hockey	soccer and football	%22forest%20fire%22	flood	earthquake	drought
chess	68	0	1	0	4	0	0	1
cricket	0	63	0	3	1	0	0	0
hockey	1	0	59	0	3	0	0	1
soccer and football	0	0	0	133	1	0	0	0
%22forest%20fire%22	5	0	3	0	55	1	3	1
flood	0	0	0	0	4	58	1	0
earthquake	2	0	2	1	2	1	64	0
drought	0	0	2	0	8	1	0	77

True label — Predicted label

```
/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)
```

Multiclass Classification with One VS Rest SVM [new labels]

Multiclass Classification with One VS One SVM [new labels] :
Accuracy: 0.9158730158730158
Recall: 0.9158730158730158
Precision: 0.9205895074400356
F1-Score: 0.9172570218871657

Multiclass Classification with One VS Rest SVM [new labels] :
Accuracy: 0.9126984126984127
Recall: 0.9126984126984127
Precision: 0.9133488309348903
F1-Score: 0.912506227507293

10.0.4 Does class imbalance impact the performance of the classification once some classes are merged? Provide a resolution for the class imbalance and recompute the accuracy and plot the confusion matrix in One VS One and One VS the rest?.

A:

We set the parameter **class_weight='balanced'** from the sklearn.svm.LinearSVC. It assigns the weights of each class label so that we can implement the balanced class we want.

As you can see, the accuracy of one vs rest gets increasing after dealing with the imbalance issue. However, the accuracy of one vs one doesn't get improved after dealing with the imbalance issue.

There are many interpretations to explain it. One of the possible explanation might be the model already got a great accuracy which didn't get influenced by the imbalanced class a lot. Therefore, dealing with the issue doesn't help us get a huge improve of the models. It only helps the one vs rest model get improved a little bit.

```python
svm_ovo = OneVsOneClassifier(svm.LinearSVC(random_state=42,
 →class_weight='balanced'))
svm_ovr = OneVsRestClassifier(svm.LinearSVC(random_state=42,
 →class_weight='balanced'))

# fit the model
svm_ovo.fit(X_train_LSI_m, y_train_multi)
svm_ovr.fit(X_train_LSI_m, y_train_multi)

# predict the test data
svm_ovo_pred = svm_ovo.predict(X_test_LSI_m)
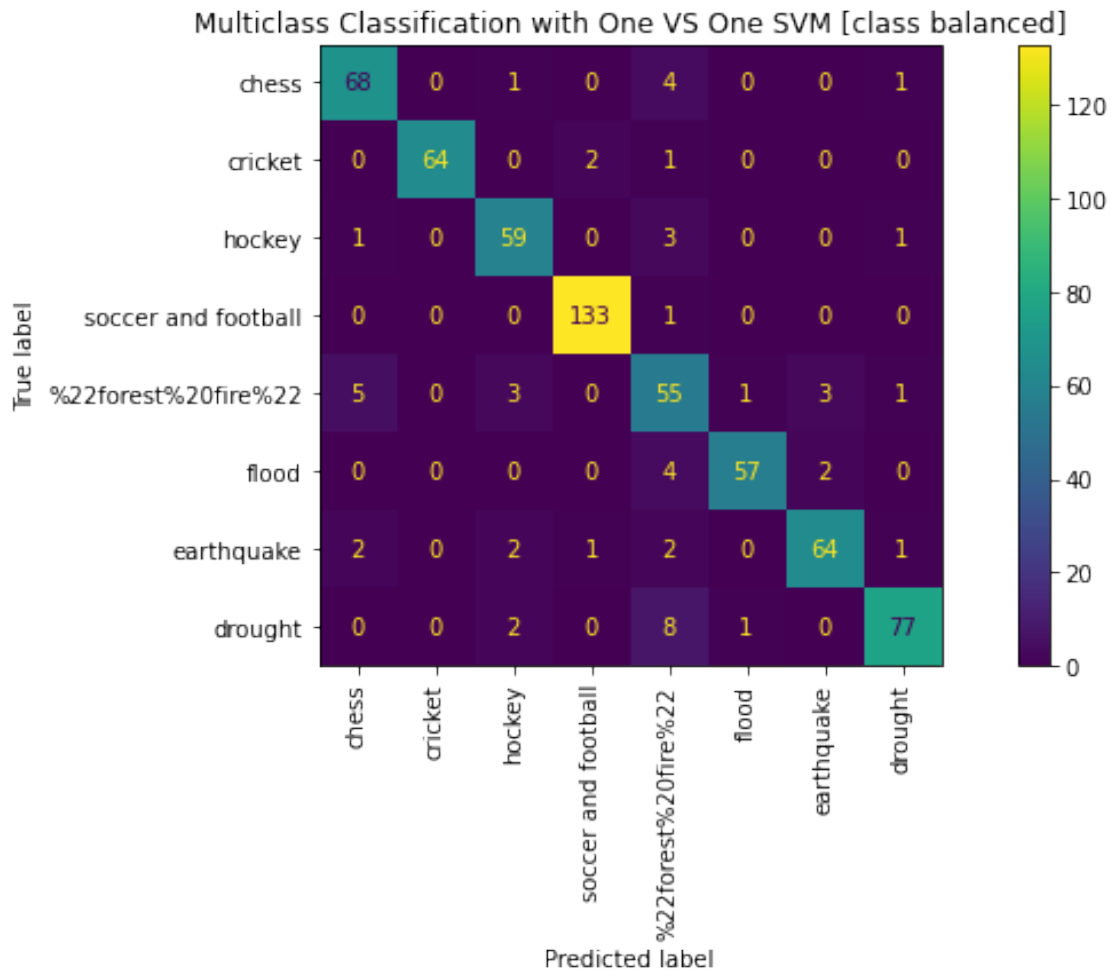svm_ovr_pred = svm_ovr.predict(X_test_LSI_m)
```

```python
plot_confusion_matrix(svm_ovo, X_test_LSI_m, y_test_multi,
 →display_labels=leaf_labels)
plt.xticks(rotation=90)
plt.title('Multiclass Classification with One VS One SVM [class balanced]')
plt.show()

plot_confusion_matrix(svm_ovr, X_test_LSI_m, y_test_multi,
 →display_labels=leaf_labels)
plt.xticks(rotation=90)
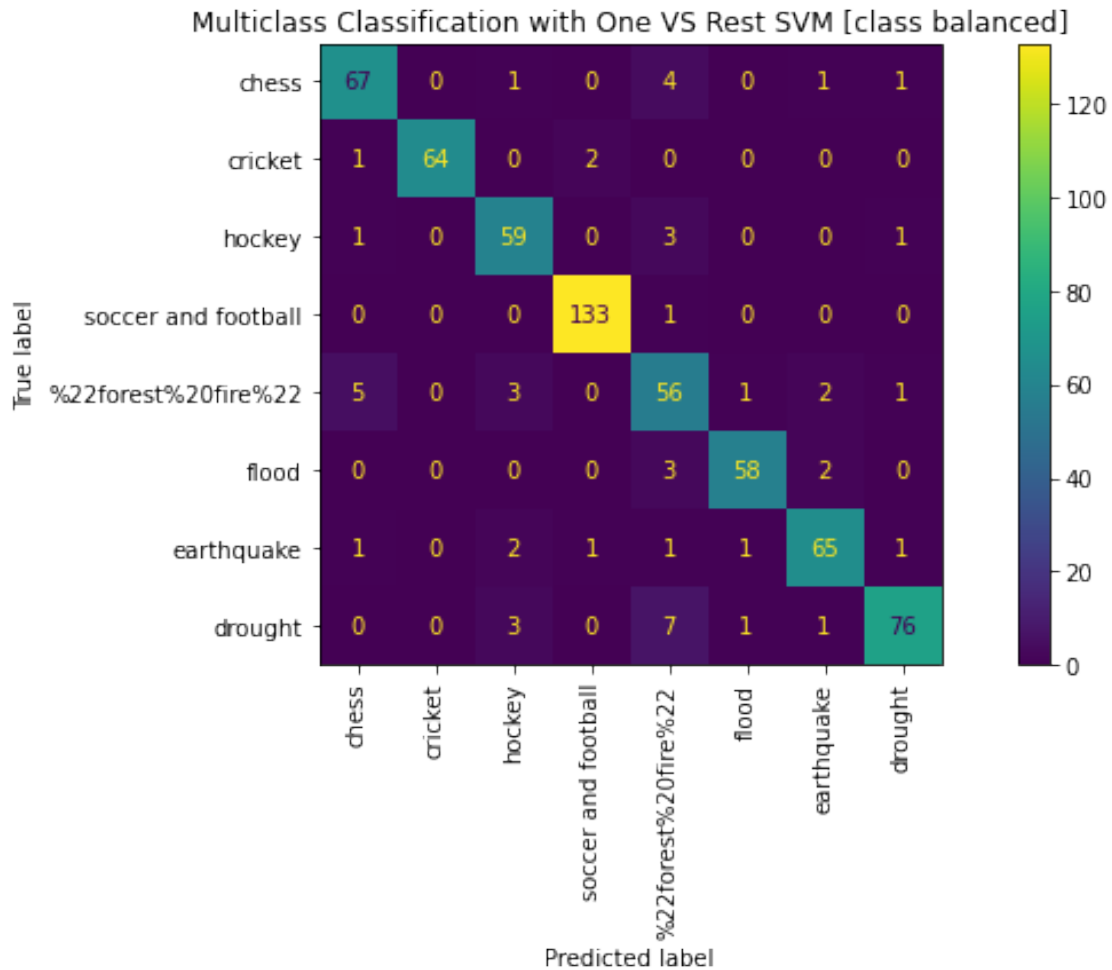plt.title('Multiclass Classification with One VS Rest SVM [class balanced]')
plt.show()

print_multi_result("Multiclass Classification with One VS One SVM [class
 →balanced]", y_test_multi, svm_ovo_pred)
print_multi_result("Multiclass Classification with One VS Rest SVM [class
 →balanced]", y_test_multi, svm_ovr_pred)
```

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:

FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

/usr/local/lib/python3.8/dist-packages/sklearn/utils/deprecation.py:87:
FutureWarning: Function plot_confusion_matrix is deprecated; Function
`plot_confusion_matrix` is deprecated in 1.0 and will be removed in 1.2. Use one
of the class methods: ConfusionMatrixDisplay.from_predictions or
ConfusionMatrixDisplay.from_estimator.
  warnings.warn(msg, category=FutureWarning)

Multiclass Classification with One VS Rest SVM [class balanced]

```
Multiclass Classification with One VS One SVM [class balanced] :
Accuracy: 0.9158730158730158
Recall: 0.9158730158730158
Precision: 0.9204173132218376
F1-Score: 0.9172625910736075

Multiclass Classification with One VS Rest SVM [class balanced] :
Accuracy: 0.9174603174603174
Recall: 0.9174603174603174
Precision: 0.9204296217678943
F1-Score: 0.9182710137391582
```

11 Question 10

11.0.1 (a) Why are GLoVE embeddings trained on the ratio of co-occurrence probabilities rather than the probabilities themselves?

A:

Relevant relations between words could be extracted using the ratio of co-occurrence, in other words, specific properties and correlations could be extracted from the ratio, while irrelevant words, which may relate to both or neither word in the ratio, could be effectively identified. The use of simple probabilities instead of co-occurrence probabilities loses this property, making it potentially harder to differentiate between relevant and irrelevant words, as shown in the "ice" versus "steam" example in the paper.

11.0.2 (b) In the two sentences: "James is running in the park." and "James is running for the presidency.", would GLoVE embeddings return the same vector for the word running in both cases? Why or why not?

A:

I would expect the GLoVE embeddings of the two to be different for any context window larger than 0, since both syntatic and semantic information greatly depends on the context (i.e. words preceding and following), which is different between the two given cases, as the target word has completely different meanings between them.

11.0.3 (c) What do you expect for the values of,

||GLoVE["queen"] - GLoVE["king"] - GLoVE["wife"] + GLoVE["husband"]||2, ||GLoVE["queen"] - GLoVE["king"]||2 and ||GLoVE["wife"] - GLoVE["husband"]||2 ?Compare these values.

A:

I would expect ||GLoVE["queen"] - GLoVE["king"] - GLoVE["wife"] + GLoVE["husband"]||2 to be equivalent to the loss of the statement "A king is to a queen as a husband is to a wife", as formulated in section 4.1 of the paper, and since the relation of word analogies hold in this case, I expect the value to be somewhat relatively low. ||GLoVE["queen"] - GLoVE["king"] ||2 and ||GLoVE["wife"] - GLoVE["husband"]||2, on the other hand, would be equivalent to the difference between "Queen and King" and the difference between "Wife and Husband", respectively, as their GLoVE embedded vectors. I expect both of these distances to be substantially larger than the first case (distance measure with all four terms), while being of similar magnitude, as to cancel out during the first case. In a vector sense, we could also characterize ||GLoVE["queen"] - GLoVE["king"] - GLoVE["wife"] + GLoVE["husband"]||2 as the magnitude of the difference between vectors GLoVE["queen"] - GLoVE["king"] and GLoVE["wife"] - GLoVE["husband"], which we would see the terms with similar magnitude (ones that satisfy the analogy relation) cancel out, leaving us with the sum of the differences between the word pairs. Interestingly though, as shown in the code snippet below, the actual GLoVE embeddings deviate from this assumption, and the difference between the embeddings for "queen" and "king" are substantially larger than expected, potentially due to additional meanings and usage associated with the respective words, which in turn lead to an increase in the value which pertains to the case with all four words. We believe that this result is akin to the GLoVE embedding telling us that queen to king is actually not a great analogy for wife to husband.

11.0.4 (d) Given a word, would you rather stem or lemmatize the word before mapping it to its GLoVE embedding?

A:

Assuming that performance is a non-issue (since stemming may be required over lemmatization if this assumption does not hold), I would prefer to lemmatize the words instead of stemming them, as GLoVE works on co-occurrence, specific context or meaning of the words should be preserved, for the model to obtain a better understanding of the underlying relation between words within a vocabulary. Stemming, on the other hand, may destroy this precious information while trading for simplicity and performance, which is likely to be undesirable.

12 Question 11

```
[ ]: embeddings_dict = {}
     dimension_of_glove = 300
     with open("drive/My Drive/ECE 219/glove.6B.300d.txt", 'r') as f:
       for line in f:
         values = line.split()
         word = values[0]
         vector = np.asarray(values[1:], "float32")
         embeddings_dict[word] = vector
```

12.0.1 (a) Describe a feature engineering process that uses GLoVE word embeddings to represent each document.

```
[ ]: #run this code after running definitions in Question 11
     qk=embeddings_dict["queen"]-embeddings_dict["king"]
     wh=embeddings_dict["wife"]-embeddings_dict["husband"]
     def dist(vec):
       sum=0
       for e in vec:
         sum=sum+e**2
       return sum
     print(dist(qk))
     print(dist(wh))
     print(dist(qk-wh))
```

```
35.59623394267456
9.935395484083587
38.00767177356546
```

```
[ ]: print(list(embeddings_dict.keys())[:100])
```

```
['the', ',', '.', 'of', 'to', 'and', 'in', 'a', '"', "'s", 'for', '-', 'that',
'on', 'is', 'was', 'said', 'with', 'he', 'as', 'it', 'by', 'at', '(', ')',
'from', 'his', "''", '``', 'an', 'be', 'has', 'are', 'have', 'but', 'were',
'not', 'this', 'who', 'they', 'had', 'i', 'which', 'will', 'their', ':', 'or',
```

'its', 'one', 'after', 'new', 'been', 'also', 'we', 'would', 'two', 'more', "'",
'first', 'about', 'up', 'when', 'year', 'there', 'all', '--', 'out', 'she',
'other', 'people', "n't", 'her', 'percent', 'than', 'over', 'into', 'last',
'some', 'government', 'time', '$', 'you', 'years', 'if', 'no', 'world', 'can',
'three', 'do', ';', 'president', 'only', 'state', 'million', 'could', 'us',
'most', '_', 'against', 'u.s.']

```python
print(list(embeddings_dict.values())[0])
```

```
[ 4.6560e-02  2.1318e-01 -7.4364e-03 -4.5854e-01 -3.5639e-02  2.3643e-01
 -2.8836e-01  2.1521e-01 -1.3486e-01 -1.6413e+00 -2.6091e-01  3.2434e-02
  5.6621e-02 -4.3296e-02 -2.1672e-02  2.2476e-01 -7.5129e-02 -6.7018e-02
 -1.4247e-01  3.8825e-02 -1.8951e-01  2.9977e-01  3.9305e-01  1.7887e-01
 -1.7343e-01 -2.1178e-01  2.3617e-01 -6.3681e-02 -4.2318e-01 -1.1661e-01
  9.3754e-02  1.7296e-01 -3.3073e-01  4.9112e-01 -6.8995e-01 -9.2462e-02
  2.4742e-01 -1.7991e-01  9.7908e-02  8.3118e-02  1.5299e-01 -2.7276e-01
 -3.8934e-02  5.4453e-01  5.3737e-01  2.9105e-01 -7.3514e-03  4.7880e-02
 -4.0760e-01 -2.6759e-02  1.7919e-01  1.0977e-02 -1.0963e-01 -2.6395e-01
  7.3990e-02  2.6236e-01 -1.5080e-01  3.4623e-01  2.5758e-01  1.1971e-01
 -3.7135e-02 -7.1593e-02  4.3898e-01 -4.0764e-02  1.6425e-02 -4.4640e-01
  1.7197e-01  4.6246e-02  5.8639e-02  4.1499e-02  5.3948e-01  5.2495e-01
  1.1361e-01 -4.8315e-02 -3.6385e-01  1.8704e-01  9.2761e-02 -1.1129e-01
 -4.2085e-01  1.3992e-01 -3.9338e-01 -6.7945e-02  1.2188e-01  1.6707e-01
  7.5169e-02 -1.5529e-02 -1.9499e-01  1.9638e-01  5.3194e-02  2.5170e-01
 -3.4845e-01 -1.0638e-01 -3.4692e-01 -1.9024e-01 -2.0040e-01  1.2154e-01
 -2.9208e-01  2.3353e-02 -1.1618e-01 -3.5768e-01  6.2304e-02  3.5884e-01
  2.9060e-02  7.3005e-03  4.9482e-03 -1.5048e-01 -1.2313e-01  1.9337e-01
  1.2173e-01  4.4503e-01  2.5147e-01  1.0781e-01 -1.7716e-01  3.8691e-02
  8.1530e-02  1.4667e-01  6.3666e-02  6.1332e-02 -7.5569e-02 -3.7724e-01
  1.5850e-02 -3.0342e-01  2.8374e-01 -4.2013e-02 -4.0715e-02 -1.5269e-01
  7.4980e-02  1.5577e-01  1.0433e-01  3.1393e-01  1.9309e-01  1.9429e-01
  1.5185e-01 -1.0192e-01 -1.8785e-02  2.0791e-01  1.3366e-01  1.9038e-01
 -2.5558e-01  3.0400e-01 -1.8960e-02  2.0147e-01 -4.2110e-01 -7.5156e-03
 -2.7977e-01 -1.9314e-01  4.6204e-02  1.9971e-01 -3.0207e-01  2.5735e-01
  6.8107e-01 -1.9409e-01  2.3984e-01  2.2493e-01  6.5224e-01 -1.3561e-01
 -1.7383e-01 -4.8209e-02 -1.1860e-01  2.1588e-03 -1.9525e-02  1.1948e-01
  1.9346e-01 -4.0820e-01 -8.2966e-02  1.6626e-01 -1.0601e-01  3.5861e-01
  1.6922e-01  7.2590e-02 -2.4803e-01 -1.0024e-01 -5.2491e-01 -1.7745e-01
 -3.6647e-01  2.6180e-01 -1.2077e-02  8.3190e-02 -2.1528e-01  4.1045e-01
  2.9136e-01  3.0869e-01  7.8864e-02  3.2207e-01 -4.1023e-02 -1.0970e-01
 -9.2041e-02 -1.2339e-01 -1.6416e-01  3.5382e-01 -8.2774e-02  3.3171e-01
 -2.4738e-01 -4.8928e-02  1.5746e-01  1.8988e-01 -2.6642e-02  6.3315e-02
 -1.0673e-02  3.4089e-01  1.4106e+00  1.3417e-01  2.8191e-01 -2.5940e-01
  5.5267e-02 -5.2425e-02 -2.5789e-01  1.9127e-02 -2.2084e-02  3.2113e-01
  6.8818e-02  5.1207e-01  1.6478e-01 -2.0194e-01  2.9232e-01  9.8575e-02
  1.3145e-02 -1.0652e-01  1.3510e-01 -4.5332e-02  2.0697e-01 -4.8425e-01
 -4.4706e-01  3.3305e-03  2.9264e-03 -1.0975e-01 -2.3325e-01  2.2442e-01
 -1.0503e-01  1.2339e-01  1.0978e-01  4.8994e-02 -2.5157e-01  4.0319e-01
```

```
    3.5318e-01  1.8651e-01 -2.3622e-02 -1.2734e-01  1.1475e-01  2.7359e-01
   -2.1866e-01  1.5794e-02  8.1754e-01 -2.3792e-02 -8.5469e-01 -1.6203e-01
    1.8076e-01  2.8014e-02 -1.4340e-01  1.3139e-03 -9.1735e-02 -8.9704e-02
    1.1105e-01 -1.6703e-01  6.8377e-02 -8.7388e-02 -3.9789e-02  1.4184e-02
    2.1187e-01  2.8579e-01 -2.8797e-01 -5.8996e-02 -3.2436e-02 -4.7009e-03
   -1.7052e-01 -3.4741e-02 -1.1489e-01  7.5093e-02  9.9526e-02  4.8183e-02
   -7.3775e-02 -4.1817e-01  4.1268e-03  4.4414e-01 -1.6062e-01  1.4294e-01
   -2.2628e+00 -2.7347e-02  8.1311e-01  7.7417e-01 -2.5639e-01 -1.1576e-01
   -1.1982e-01 -2.1363e-01  2.8429e-02  2.7261e-01  3.1026e-02  9.6782e-02
    6.7769e-03  1.4082e-01 -1.3064e-02 -2.9686e-01 -7.9913e-02  1.9500e-01
    3.1549e-02  2.8506e-01 -8.7461e-02  9.0611e-03 -2.0989e-01  5.3913e-02]
```

```python
print(df['full_text'][0])
```

Pure Hockey the largest hockey retailer in the US now has over locations with
this being the first in Las Vegas

HOLLISTON MA USA October   EINPresswirecom Pure Hockey the largest hockey
retailer in the US announced today that it has agreed to acquire The Penalty Box
a fullservice hockey retailer located in Las Vegas Nevada Through the
acquisition Pure Hockey expands its retail presence to Nevada one of the
fastestgrowing hockey markets in the United States Pure Hockey now operates over
retail locations across the United States This is Pure Hockeys sixth store
opening of following the expansion in Florida Illinois Pennsylvania and Texas

The acquisition of The Penalty Box provides us with the opportunity to bring our
established brand and economies of scale to a hockey market that is experiencing
exponential growth said David Nectow CEO Pure Hockey With unmatched customer
experience and product selection we look forward to growing with the hockey
community in Nevada Were very lucky to have been able to find a strong retailer
in Nicholas Gerasimatos and his team at Penalty Box

The Penalty Box was founded in by Nicholas Gerasimatos and quickly became the
premier hockey retailer in Southern Nevada The Penalty Box has quickly built a
loyal customer base and filled a need for a hockey retailer servicing Southern
Nevada

We are very excited to find an acquisition partner in Pure Hockey As the
industry leader Pure Hockey provides an exceptional retail experience that our
customers have come to expect from The Penalty Box said Nicholas Gerasimatos
Owner The Penalty Box Pure Hockey is able to provide the best products and
service to the Las Vegas hockey community

Pure Hockey Las Vegas will have a grand opening event in the coming months The
retail location will remain at the Penalty Box address of Wagon Trail Ave Las
Vegas NV

About Pure Hockey

Pure Hockey is headquartered outside of Boston MA The company was founded in and was acquired by David Nectow and Sal Tiano in Nectow and Tiano started their hockey business in with the purchase of one hockey retail store in Massachusetts Pure Hockey has since expanded organically and through strategic acquisitions and now operates two ecommerce sites and approximately stores in states across the US under the Pure Hockey and Pure Goalie brands Pure Hockey is the Official Hockey Equipment Retailer of USA Hockey and the Retail Partner of the NHLNHLPAs Learn to Play Program For more information visit purehockeycom

Media Contact Katie Gardner kgardnerpurehockeycom

```python
import re
re.findall(r"\w+|[^\w\s]", df['full_text'][0], re.UNICODE)
```

```
['Pure',
 'Hockey',
 'the',
 'largest',
 'hockey',
 'retailer',
 'in',
 'the',
 'US',
 'now',
 'has',
 'over',
 'locations',
 'with',
 'this',
 'being',
 'the',
 'first',
 'in',
 'Las',
 'Vegas',
 'HOLLISTON',
 'MA',
 'USA',
 'October',
 'EINPresswirecom',
 'Pure',
 'Hockey',
 'the',
 'largest',
 'hockey',
 'retailer',
```

```
'in',
'the',
'US',
'announced',
'today',
'that',
'it',
'has',
'agreed',
'to',
'acquire',
'The',
'Penalty',
'Box',
'a',
'fullservice',
'hockey',
'retailer',
'located',
'in',
'Las',
'Vegas',
'Nevada',
'Through',
'the',
'acquisition',
'Pure',
'Hockey',
'expands',
'its',
'retail',
'presence',
'to',
'Nevada',
'one',
'of',
'the',
'fastestgrowing',
'hockey',
'markets',
'in',
'the',
'United',
'States',
'Pure',
'Hockey',
'now',
```

```
'operates',
'over',
'retail',
'locations',
'across',
'the',
'United',
'States',
'This',
'is',
'Pure',
'Hockeys',
'sixth',
'store',
'opening',
'of',
'following',
'the',
'expansion',
'in',
'Florida',
'Illinois',
'Pennsylvania',
'and',
'Texas',
'The',
'acquisition',
'of',
'The',
'Penalty',
'Box',
'provides',
'us',
'with',
'the',
'opportunity',
'to',
'bring',
'our',
'established',
'brand',
'and',
'economies',
'of',
'scale',
'to',
'a',
```

```
'hockey',
'market',
'that',
'is',
'experiencing',
'exponential',
'growth',
'said',
'David',
'Nectow',
'CEO',
'Pure',
'Hockey',
'With',
'unmatched',
'customer',
'experience',
'and',
'product',
'selection',
'we',
'look',
'forward',
'to',
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'the',
'hockey',
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'in',
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'Were',
'very',
'lucky',
'to',
'have',
'been',
'able',
'to',
'find',
'a',
'strong',
'retailer',
'in',
'Nicholas',
'Gerasimatos',
'and',
```

```
'his',
'team',
'at',
'Penalty',
'Box',
'The',
'Penalty',
'Box',
'was',
'founded',
'in',
'by',
'Nicholas',
'Gerasimatos',
'and',
'quickly',
'became',
'the',
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'retailer',
'in',
'Southern',
'Nevada',
'The',
'Penalty',
'Box',
'has',
'quickly',
'built',
'a',
'loyal',
'customer',
'base',
'and',
'filled',
'a',
'need',
'for',
'a',
'hockey',
'retailer',
'servicing',
'Southern',
'Nevada',
'We',
'are',
```

```
'very',
'excited',
'to',
'find',
'an',
'acquisition',
'partner',
'in',
'Pure',
'Hockey',
'As',
'the',
'industry',
'leader',
'Pure',
'Hockey',
'provides',
'an',
'exceptional',
'retail',
'experience',
'that',
'our',
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'to',
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'from',
'The',
'Penalty',
'Box',
'said',
'Nicholas',
'Gerasimatos',
'Owner',
'The',
'Penalty',
'Box',
'Pure',
'Hockey',
'is',
'able',
'to',
'provide',
'the',
'best',
```

```
'products',
'and',
'service',
'to',
'the',
'Las',
'Vegas',
'hockey',
'community',
'Pure',
'Hockey',
'Las',
'Vegas',
'will',
'have',
'a',
'grand',
'opening',
'event',
'in',
'the',
'coming',
'months',
'The',
'retail',
'location',
'will',
'remain',
'at',
'the',
'Penalty',
'Box',
'address',
'of',
'Wagon',
'Trail',
'Ave',
'Las',
'Vegas',
'NV',
'About',
'Pure',
'Hockey',
'Pure',
'Hockey',
'is',
'headquartered',
```

```
'outside',
'of',
'Boston',
'MA',
'The',
'company',
'was',
'founded',
'in',
'and',
'was',
'acquired',
'by',
'David',
'Nectow',
'and',
'Sal',
'Tiano',
'in',
'Nectow',
'and',
'Tiano',
'started',
'their',
'hockey',
'business',
'in',
'with',
'the',
'purchase',
'of',
'one',
'hockey',
'retail',
'store',
'in',
'Massachusetts',
'Pure',
'Hockey',
'has',
'since',
'expanded',
'organically',
'and',
'through',
'strategic',
'acquisitions',
```

```
'and',
'now',
'operates',
'two',
'ecommerce',
'sites',
'and',
'approximately',
'stores',
'in',
'states',
'across',
'the',
'US',
'under',
'the',
'Pure',
'Hockey',
'and',
'Pure',
'Goalie',
'brands',
'Pure',
'Hockey',
'is',
'the',
'Official',
'Hockey',
'Equipment',
'Retailer',
'of',
'USA',
'Hockey',
'and',
'the',
'Retail',
'Partner',
'of',
'the',
'NHLNHLPAs',
'Learn',
'to',
'Play',
'Program',
'For',
'more',
'information',
```

```
  'visit',
  'purehockeycom',
  'Media',
  'Contact',
  'Katie',
  'Gardner',
  'kgardnerpurehockeycom']
```

```python
def GLoVE(rows,edict):
    embeddings=[]
    sums=[]
    for row in rows:
        words=re.findall(r"\w+|[^\w\s]", row, re.UNICODE)
        embedding=[]
        sum=np.zeros(len(list(edict.values())[0]))
        count=0
        for word in words:
            try:
                sum=sum+edict[word.lower()]
                embedding.append(edict[word.lower()])
                count+=1
            except:
                pass
        embeddings.append(embedding)
        sums.append(sum/count)
    return embeddings,sums
```

```python
embeddings,sums=GLoVE(df['full_text'],embeddings_dict)
#print(sums[0])
```

12.0.2 (b) Select a classifier model, train and evaluate it with your GLoVE-based feature. If you are doing any cross-validation, please make sure to use a limited set of options so that your code finishes running in a reasonable amount of time.

```python
#Do classification either on a linear transform of <embeddings> or <sums>
from sklearn.linear_model import LogisticRegression
e300tr,s300tr=GLoVE(train['full_text'],embeddings_dict)
e300te,s300te=GLoVE(test["full_text"],embeddings_dict)
l2c = LogisticRegression(penalty='l2', random_state=9527,C=10,
 ↪solver='liblinear', max_iter=100000)
l2c.fit(s300tr, y_train)
y_pred = l2c.predict(s300te)
print_result("300d",y_test,y_pred)
```

```
300d :
Accuracy: 0.9555555555555556
```

```
Recall: 0.9607843137254902
Precision: 0.9607843137254902
F1-Score: 0.9607843137254902
```

Here we observe that by aggregating all GLoVE embeddings into a single vector by taking the mean of the embedding vectors for every word in the document, we still retain enough information for our classification model (Logistic regression with l2 regularization) to efficiently differentiate between classes, achieving an accuracy of around 96.19%.

13 Question 12

13.0.1 Plot the relationship between the dimension of the pre-trained GLoVE embedding and the resulting accuracy of the model in the classification task. Describe the observed trend. Is this trend expected? Why or why not? In this part use the different sets of GLoVE vectors from the link.

```python
embeddings_dict50 = {}
with open("drive/My Drive/ECE 219/glove.6B.50d.txt", 'r') as f:
  for line in f:
    values = line.split()
    word = values[0]
    vector = np.asarray(values[1:], "float32")
    embeddings_dict50[word] = vector
embeddings_dict100 = {}
with open("drive/My Drive/ECE 219/glove.6B.100d.txt", 'r') as f:
  for line in f:
    values = line.split()
    word = values[0]
    vector = np.asarray(values[1:], "float32")
    embeddings_dict100[word] = vector
embeddings_dict200 = {}
with open("drive/My Drive/ECE 219/glove.6B.200d.txt", 'r') as f:
  for line in f:
    values = line.split()
    word = values[0]
    vector = np.asarray(values[1:], "float32")
    embeddings_dict200[word] = vector
```

```python
print(len(embeddings_dict50.keys()))
print(len(embeddings_dict100.keys()))
print(len(embeddings_dict200.keys()))
print(len(embeddings_dict.keys()))

print(len(list(embeddings_dict50.values())[0]))
print(len(list(embeddings_dict100.values())[0]))
print(len(list(embeddings_dict200.values())[0]))
print(len(list(embeddings_dict.values())[0]))
```

```
400000
400000
400000
400000
50
100
200
300
```

```python
#test for different GLoVE embedding lengths
embeddings50,sums50=GLoVE(df['full_text'],embeddings_dict50)
embeddings100,sums100=GLoVE(df['full_text'],embeddings_dict100)
embeddings200,sums200=GLoVE(df['full_text'],embeddings_dict200)
embeddings,sums=GLoVE(df['full_text'],embeddings_dict)
print(sums50[0])
print(sums100[0])
print(sums200[0])
print(sums[0])
```

```
[ 0.11808152   0.22990558  -0.12222934   0.20317452   0.22917842   0.01099067
 -0.60533027  -0.14899211   0.03709993  -0.05085494   0.16901407  -0.06579774
 -0.32236872  -0.10306673   0.23485559   0.12555783   0.10734039   0.10842584
 -0.5202819   -0.22861994   0.16113955  -0.04530003  -0.05620816   0.07504799
 -0.22663105  -1.38564248  -0.30931707  -0.01640182   0.08593353  -0.17486748
  2.91103998   0.16496452  -0.09152619  -0.29793145   0.07008224  -0.11174856
 -0.07072981   0.18257383   0.08428842  -0.10541317  -0.09187669   0.01821072
  0.04321849   0.0463882   -0.1829947    0.17775732  -0.21724982  -0.05709987
 -0.08307275  -0.01915587]
[ 4.07397795e-02   5.56342354e-02   3.62399963e-01  -1.62620389e-01
  1.29772164e-01   5.07529724e-03  -6.79727073e-02   1.51621189e-01
 -2.96157855e-01   5.68463067e-02   4.57806767e-02  -2.35985975e-01
  1.73913066e-01  -2.67287683e-02   3.64700638e-03  -2.42156634e-01
  2.97353928e-01   8.78034395e-02  -3.64827260e-01   9.46574348e-02
  2.17246242e-01   1.63256916e-01   1.99675398e-01   9.31260481e-02
  1.13669560e-01  -1.40348194e-01   9.92073508e-02  -3.91744577e-01
 -2.88409723e-02  -7.08522214e-02  -1.37748010e-01   4.65712885e-01
 -1.01707892e-01   2.86796707e-02   1.01939358e-01   1.32917591e-01
 -2.74425953e-04   3.26086598e-01  -1.13947483e-01  -2.32478310e-01
 -1.59220235e-01  -2.72003288e-01   4.31028125e-02  -2.95435580e-01
  6.30283195e-02   1.26546262e-01   2.44147234e-01  -2.74238852e-01
  4.85828341e-02  -5.41101981e-01  -7.45207599e-02  -4.06396173e-02
  8.13367656e-02   7.54083490e-01  -1.91562321e-01  -2.24456726e+00
 -1.28113333e-01  -2.78813655e-01   1.52045118e+00   4.33374313e-01
 -1.53694629e-01   5.01071506e-01  -9.34038391e-02   1.16526040e-01
  5.33131293e-01  -8.12866507e-02   3.05177261e-01   2.76709864e-01
  2.41193372e-01  -2.09323995e-02   1.82769359e-02  -2.61887542e-01
 -1.66750379e-01  -2.12661099e-01   1.54799187e-01   6.09064187e-03
 -1.32681383e-02  -6.42397070e-02  -8.09358208e-01   6.98538574e-02
```

```
   4.87124042e-01  1.06885383e-01 -3.27274102e-01  1.77725319e-01
  -9.73039789e-01 -2.33727650e-01  3.04254975e-03 -1.64223363e-01
   1.16988393e-02 -2.56921123e-01 -2.78052069e-02 -6.83025925e-02
  -1.72454073e-01  1.83350737e-01 -4.72924784e-01 -2.47567564e-02
  -2.23272509e-01 -1.81144361e-01  6.45736291e-01  1.18091877e-01]
[ 8.29980026e-02  1.74531955e-01 -8.54200301e-02 -2.00055755e-01
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  -2.98235220e-02 -6.23108059e-03  5.20338535e-02  1.23221122e-01
  -6.24075643e-02  1.01055748e-01  3.70909548e-01  5.06131293e-02
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  -4.56039256e-01 -1.67298542e-01  2.80352649e-02  4.64230053e-03
  -4.80970835e-02 -2.01097143e-01  7.11283740e-02  1.59986044e-01
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   1.19290065e-01  6.00925580e-02 -6.71488696e-02  2.21544682e-01
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```

```
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  9.38200906e-01 -9.64304746e-02 -8.24788923e-02  6.47394823e-02
 -1.28326840e-01 -1.16693209e-01 -4.78869982e-02  1.00674382e-01
  1.13446880e-02  2.29510527e-01 -2.40886252e-02  1.01091751e-01
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 -1.54388414e-01  1.32238827e-01  5.15042736e-02  2.11774477e-01]
[-7.27104659e-02  1.45080599e-01 -4.94703142e-02 -1.66932368e-01
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 -4.37121730e-02  6.41811250e-02  5.23931959e-02  1.43212960e-01
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 -1.23334416e-01 -3.19187901e-02  2.86488149e-04 -8.82886284e-04
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```

```
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-1.15125168e-01  4.80779995e-02  2.87261690e-01  2.06833391e-02
-4.64023195e-01 -1.31226181e-01  1.47303975e-01 -1.97154629e-02
-5.79618551e-03 -3.76615166e-02  1.27204371e-01  1.64960944e-02
-7.14417931e-02  3.03110243e-03  1.87399811e-01 -5.55948671e-02
-3.47559140e-02 -3.11485688e-02  1.48921352e-01  9.28896228e-02
-3.75363162e-02 -5.01186542e-02  5.17732363e-02  4.17905684e-02
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-1.64395405e+00 -1.84098484e-02  3.11487660e-01  1.04515170e-01
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-1.07247262e-01  1.03147130e-01  1.38386715e-01  2.69216112e-01
 1.15675339e-01 -1.67967743e-01 -5.05969848e-02 -8.19889448e-02]
```

```python
#do classification on all 4 dimension numbers
print_result("300d",y_test,y_pred)
e200tr,s200tr=GLoVE(train['full_text'],embeddings_dict200)
e200te,s200te=GLoVE(test["full_text"],embeddings_dict200)
l2c200 = LogisticRegression(penalty='l2', random_state=9527,C=10,
 solver='liblinear', max_iter=100000)
l2c200.fit(s200tr, y_train)
y_pred200 = l2c200.predict(s200te)
print_result("200d",y_test,y_pred200)
e100tr,s100tr=GLoVE(train['full_text'],embeddings_dict100)
e100te,s100te=GLoVE(test["full_text"],embeddings_dict100)
```

```
l2c100 = LogisticRegression(penalty='l2', random_state=9527,C=10,␣
 ↪solver='liblinear', max_iter=100000)
l2c100.fit(s100tr, y_train)
y_pred100 = l2c100.predict(s100te)
print_result("100d",y_test,y_pred100)
e50tr,s50tr=GLoVE(train['full_text'],embeddings_dict50)
e50te,s50te=GLoVE(test["full_text"],embeddings_dict50)
l2c50 = LogisticRegression(penalty='l2', random_state=9527,C=10,␣
 ↪solver='liblinear', max_iter=100000)
l2c50.fit(s50tr, y_train)
y_pred50 = l2c50.predict(s50te)
print_result("50d",y_test,y_pred50)
```

```
300d :
Accuracy: 0.9555555555555556
Recall: 0.9607843137254902
Precision: 0.9607843137254902
F1-Score: 0.9607843137254902

200d :
Accuracy: 0.9587301587301588
Recall: 0.9663865546218487
Precision: 0.9610027855153204
F1-Score: 0.9636871508379888

100d :
Accuracy: 0.9571428571428572
Recall: 0.969187675070028
Precision: 0.9558011049723757
F1-Score: 0.9624478442280946

50d :
Accuracy: 0.9507936507936507
Recall: 0.957983193277311
Precision: 0.9553072625698324
F1-Score: 0.9566433566433566
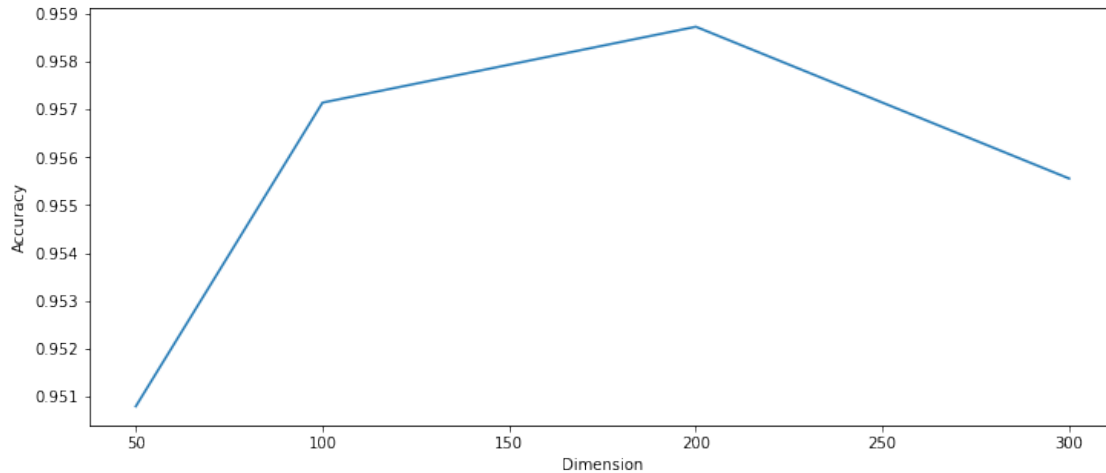```

```
[ ]: #plot dimension and accuracy
     plt.
      ↪plot([50,100,200,300],[accuracy_score(y_test,y_pred50),accuracy_score(y_test,y_pred100),acc
     plt.xlabel("Dimension")
     plt.ylabel("Accuracy")
```

```
[ ]: Text(0, 0.5, 'Accuracy')
```

We observe that the accuracy for our classification model is somewhat related to the dimension count of our GLoVE embedding, with the higher dimension embedding we get better accuracy. This is to be expected, as a higher dimension vector is able to preserve more information about the given document, especially after word embeddings are averaged over all words in a document, where individual embeddings may have its information muddled or lost.

14 Question 13

14.0.1 Compare and contrast the two visualizations. Are there clusters formed in either or both of the plots?

A:

There are clusters formed in the GLoVE-based Embeddings Vectors but not in the randomized vector.

```
[ ]: !pip install umap-learn
     !pip install umap-learn[plot]
     import umap
     import umap.plot
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-
wheels/public/simple/
Collecting umap-learn
  Downloading umap-learn-0.5.3.tar.gz (88 kB)
                           88.2/88.2 KB
5.4 MB/s eta 0:00:00
  Preparing metadata (setup.py) … done
Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.8/dist-
packages (from umap-learn) (1.21.6)
Requirement already satisfied: scikit-learn>=0.22 in
/usr/local/lib/python3.8/dist-packages (from umap-learn) (1.0.2)
```

255

Requirement already satisfied: scipy>=1.0 in /usr/local/lib/python3.8/dist-packages (from umap-learn) (1.7.3)
Requirement already satisfied: numba>=0.49 in /usr/local/lib/python3.8/dist-packages (from umap-learn) (0.56.4)
Collecting pynndescent>=0.5
  Downloading pynndescent-0.5.8.tar.gz (1.1 MB)
                      1.1/1.1 MB
30.8 MB/s eta 0:00:00
  Preparing metadata (setup.py) … done
Requirement already satisfied: tqdm in /usr/local/lib/python3.8/dist-packages (from umap-learn) (4.64.1)
Requirement already satisfied: llvmlite<0.40,>=0.39.0dev0 in /usr/local/lib/python3.8/dist-packages (from numba>=0.49->umap-learn) (0.39.1)
Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.8/dist-packages (from numba>=0.49->umap-learn) (6.0.0)
Requirement already satisfied: setuptools in /usr/local/lib/python3.8/dist-packages (from numba>=0.49->umap-learn) (57.4.0)
Requirement already satisfied: joblib>=0.11 in /usr/local/lib/python3.8/dist-packages (from pynndescent>=0.5->umap-learn) (1.2.0)
Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.8/dist-packages (from scikit-learn>=0.22->umap-learn) (3.1.0)
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.8/dist-packages (from importlib-metadata->numba>=0.49->umap-learn) (3.11.0)
Building wheels for collected packages: umap-learn, pynndescent
  Building wheel for umap-learn (setup.py) … done
  Created wheel for umap-learn: filename=umap_learn-0.5.3-py3-none-any.whl size=82829 sha256=e48797c805e23773e2bde58a716e7ddfeec06337a4e369405b1afec403eefe5f
  Stored in directory: /root/.cache/pip/wheels/a9/3a/67/06a8950e053725912e6a8c42c4a3a241410f6487b8402542ea
  Building wheel for pynndescent (setup.py) … done
  Created wheel for pynndescent: filename=pynndescent-0.5.8-py3-none-any.whl size=55513 sha256=763dee45be723811bf3885dbe149ac2f3e62c03df22494aae3f220ba11164ae2
  Stored in directory: /root/.cache/pip/wheels/1c/63/3a/29954bca1a27ba100ed8c27973a78cb71b43dc67aed62e80c3
Successfully built umap-learn pynndescent
Installing collected packages: pynndescent, umap-learn
Successfully installed pynndescent-0.5.8 umap-learn-0.5.3
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: umap-learn[plot] in /usr/local/lib/python3.8/dist-packages (0.5.3)
Requirement already satisfied: tqdm in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (4.64.1)
Requirement already satisfied: numba>=0.49 in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (0.56.4)

Requirement already satisfied: scipy>=1.0 in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (1.7.3)
Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (1.21.6)
Requirement already satisfied: scikit-learn>=0.22 in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (1.0.2)
Requirement already satisfied: pynndescent>=0.5 in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (0.5.8)
Requirement already satisfied: pandas in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (1.3.5)
Requirement already satisfied: colorcet in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (3.0.1)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (3.2.2)
Collecting datashader
  Downloading datashader-0.14.3-py2.py3-none-any.whl (18.2 MB)
                          18.2/18.2 MB
55.0 MB/s eta 0:00:00
Requirement already satisfied: scikit-image in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (0.18.3)
Requirement already satisfied: holoviews in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (1.14.9)
Requirement already satisfied: seaborn in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (0.11.2)
Requirement already satisfied: bokeh in /usr/local/lib/python3.8/dist-packages (from umap-learn[plot]) (2.3.3)
Requirement already satisfied: setuptools in /usr/local/lib/python3.8/dist-packages (from numba>=0.49->umap-learn[plot]) (57.4.0)
Requirement already satisfied: llvmlite<0.40,>=0.39.0dev0 in /usr/local/lib/python3.8/dist-packages (from numba>=0.49->umap-learn[plot]) (0.39.1)
Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.8/dist-packages (from numba>=0.49->umap-learn[plot]) (6.0.0)
Requirement already satisfied: joblib>=0.11 in /usr/local/lib/python3.8/dist-packages (from pynndescent>=0.5->umap-learn[plot]) (1.2.0)
Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.8/dist-packages (from scikit-learn>=0.22->umap-learn[plot]) (3.1.0)
Requirement already satisfied: pillow>=7.1.0 in /usr/local/lib/python3.8/dist-packages (from bokeh->umap-learn[plot]) (7.1.2)
Requirement already satisfied: typing-extensions>=3.7.4 in /usr/local/lib/python3.8/dist-packages (from bokeh->umap-learn[plot]) (4.4.0)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.8/dist-packages (from bokeh->umap-learn[plot]) (2.8.2)
Requirement already satisfied: packaging>=16.8 in /usr/local/lib/python3.8/dist-packages (from bokeh->umap-learn[plot]) (21.3)
Requirement already satisfied: tornado>=5.1 in /usr/local/lib/python3.8/dist-

packages (from bokeh->umap-learn[plot]) (6.0.4)
Requirement already satisfied: Jinja2>=2.9 in /usr/local/lib/python3.8/dist-
packages (from bokeh->umap-learn[plot]) (2.11.3)
Requirement already satisfied: PyYAML>=3.10 in /usr/local/lib/python3.8/dist-
packages (from bokeh->umap-learn[plot]) (6.0)
Requirement already satisfied: pyct>=0.4.4 in /usr/local/lib/python3.8/dist-
packages (from colorcet->umap-learn[plot]) (0.4.8)
Requirement already satisfied: toolz in /usr/local/lib/python3.8/dist-packages
(from datashader->umap-learn[plot]) (0.12.0)
Requirement already satisfied: xarray in /usr/local/lib/python3.8/dist-packages
(from datashader->umap-learn[plot]) (2022.12.0)
Collecting datashape
  Downloading datashape-0.5.2.tar.gz (76 kB)
                            76.5/76.5 KB
7.4 MB/s eta 0:00:00
  Preparing metadata (setup.py) … done
Requirement already satisfied: requests in /usr/local/lib/python3.8/dist-
packages (from datashader->umap-learn[plot]) (2.25.1)
Requirement already satisfied: param in /usr/local/lib/python3.8/dist-packages
(from datashader->umap-learn[plot]) (1.12.3)
Requirement already satisfied: dask in /usr/local/lib/python3.8/dist-packages
(from datashader->umap-learn[plot]) (2022.2.1)
Requirement already satisfied: panel>=0.8.0 in /usr/local/lib/python3.8/dist-
packages (from holoviews->umap-learn[plot]) (0.12.1)
Requirement already satisfied: pyviz-comms>=0.7.4 in
/usr/local/lib/python3.8/dist-packages (from holoviews->umap-learn[plot])
(2.2.1)
Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.8/dist-
packages (from pandas->umap-learn[plot]) (2022.7)
Requirement already satisfied: kiwisolver>=1.0.1 in
/usr/local/lib/python3.8/dist-packages (from matplotlib->umap-learn[plot])
(1.4.4)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in
/usr/local/lib/python3.8/dist-packages (from matplotlib->umap-learn[plot])
(3.0.9)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.8/dist-
packages (from matplotlib->umap-learn[plot]) (0.11.0)
Requirement already satisfied: tifffile>=2019.7.26 in
/usr/local/lib/python3.8/dist-packages (from scikit-image->umap-learn[plot])
(2022.10.10)
Requirement already satisfied: imageio>=2.3.0 in /usr/local/lib/python3.8/dist-
packages (from scikit-image->umap-learn[plot]) (2.9.0)
Requirement already satisfied: networkx>=2.0 in /usr/local/lib/python3.8/dist-
packages (from scikit-image->umap-learn[plot]) (3.0)
Requirement already satisfied: PyWavelets>=1.1.1 in
/usr/local/lib/python3.8/dist-packages (from scikit-image->umap-learn[plot])
(1.4.1)
Requirement already satisfied: MarkupSafe>=0.23 in

/usr/local/lib/python3.8/dist-packages (from Jinja2>=2.9->bokeh->umap-learn[plot]) (2.0.1)
Requirement already satisfied: bleach in /usr/local/lib/python3.8/dist-packages (from panel>=0.8.0->holoviews->umap-learn[plot]) (5.0.1)
Requirement already satisfied: markdown in /usr/local/lib/python3.8/dist-packages (from panel>=0.8.0->holoviews->umap-learn[plot]) (3.4.1)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.8/dist-packages (from python-dateutil>=2.1->bokeh->umap-learn[plot]) (1.15.0)
Requirement already satisfied: partd>=0.3.10 in /usr/local/lib/python3.8/dist-packages (from dask->datashader->umap-learn[plot]) (1.3.0)
Requirement already satisfied: cloudpickle>=1.1.1 in /usr/local/lib/python3.8/dist-packages (from dask->datashader->umap-learn[plot]) (2.2.0)
Requirement already satisfied: fsspec>=0.6.0 in /usr/local/lib/python3.8/dist-packages (from dask->datashader->umap-learn[plot]) (2022.11.0)
Requirement already satisfied: multipledispatch>=0.4.7 in /usr/local/lib/python3.8/dist-packages (from datashape->datashader->umap-learn[plot]) (0.6.0)
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.8/dist-packages (from importlib-metadata->numba>=0.49->umap-learn[plot]) (3.11.0)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.8/dist-packages (from requests->datashader->umap-learn[plot]) (2022.12.7)
Requirement already satisfied: chardet<5,>=3.0.2 in /usr/local/lib/python3.8/dist-packages (from requests->datashader->umap-learn[plot]) (4.0.0)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /usr/local/lib/python3.8/dist-packages (from requests->datashader->umap-learn[plot]) (1.24.3)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.8/dist-packages (from requests->datashader->umap-learn[plot]) (2.10)
Requirement already satisfied: locket in /usr/local/lib/python3.8/dist-packages (from partd>=0.3.10->dask->datashader->umap-learn[plot]) (1.0.0)
Requirement already satisfied: webencodings in /usr/local/lib/python3.8/dist-packages (from bleach->panel>=0.8.0->holoviews->umap-learn[plot]) (0.5.1)
Building wheels for collected packages: datashape
  Building wheel for datashape (setup.py) … done
  Created wheel for datashape: filename=datashape-0.5.2-py3-none-any.whl size=59439 sha256=cc9cadc46197c016c0d2b20ac6cd75c70cd7f88379287bf09504443d58e6f549
  Stored in directory: /root/.cache/pip/wheels/6d/79/c4/c425774559165f472d32e5ef592ff9a71179abb31f05dbc98b
Successfully built datashape
Installing collected packages: datashape, datashader
Successfully installed datashader-0.14.3 datashape-0.5.2

```
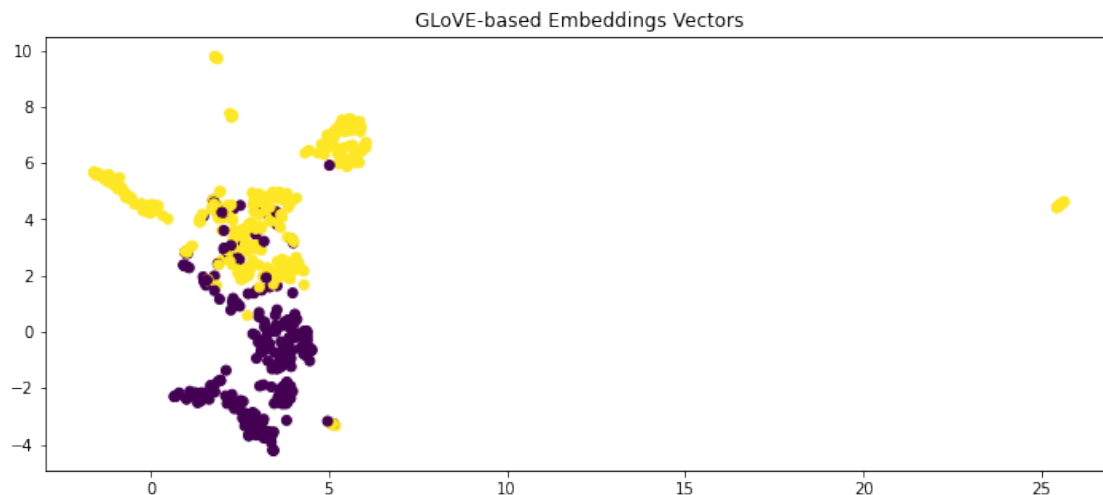[ ]: #Normalized GLoVE-based embeddings of the documents with their binary labels
     fit = umap.UMAP()
     map = fit.fit_transform(s300te)

     scatter = plt.scatter (map[:,0], map[:,1], c = y_test)
     plt.title("GLoVE-based Embeddings Vectors")
```

[ ]: Text(0.5, 1.0, 'GLoVE-based Embeddings Vectors')

GLoVE-based Embeddings Vectors

```
[ ]: #Generate a set of normalized random vectors of the same dimension as GLoVE

     np.random.seed(9527)
     dataset = np.random.rand(len(s300te),len(s300te[0]))
     rand = fit.fit_transform(dataset)
     rand_labels = np.random.randint(2, size = rand.shape[0])
     plt.scatter(rand[:,0], rand[:,1], c = rand_labels)
     plt.title("Normalized Random Vectors")
```

[ ]: Text(0.5, 1.0, 'Normalized Random Vectors')

Normalized Random Vectors