

04_xg_boost

November 20, 2025

1 XG-Boost

```
[2]: from pathlib import Path
import numpy as np
import pandas as pd
from sklearn.model_selection import train_test_split, KFold
from sklearn.compose import ColumnTransformer
from sklearn.pipeline import Pipeline
from sklearn.metrics import f1_score
from sklearn.feature_extraction.text import TfidfVectorizer
from scipy.sparse import hstack
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer

import json

DATA_DIR = Path('../data/nlp-getting-started')
TRAIN_PATH = DATA_DIR / 'train.csv'
TEST_PATH = DATA_DIR / 'test.csv'
LOCATION_TO_COUNTRY_PATH = Path('../data/location_to_country.json')
RANDOM_SEED = 27

train_df = pd.read_csv(TRAIN_PATH)
test_df = pd.read_csv(TEST_PATH)

with open(LOCATION_TO_COUNTRY_PATH, 'r', encoding='utf-8') as f:
    location_to_country = json.load(f)

# Categóricas: 'country', 'keyword'. Después las voy a mean encodear.
train_df['country'] = train_df['location'].map(location_to_country).
    fillna('unknown')
test_df['country'] = test_df['location'].map(location_to_country).
    fillna('unknown')

train_df['keyword'] = train_df['keyword'].fillna('missing')
test_df['keyword'] = test_df['keyword'].fillna('missing')
```

```

categorical_features = ['country', 'keyword']

# Numéricas: 'text_length', 'num_hashtags', 'num_mentions', ↵
↳ 'num_uppercase_per_word', 'sentiment_score', 'has_url'

# one hot encoding de 'has_url' a mano
train_df['has_url'] = train_df['text'].fillna('').str.contains(r'http[s]?://', ↵
↳ regex=True).astype(int)
test_df['has_url'] = test_df['text'].fillna('').str.contains(r'http[s]?://', ↵
↳ regex=True).astype(int)

train_df['text_length'] = train_df['text'].fillna('').str.len()
test_df['text_length'] = test_df['text'].fillna('').str.len()

train_df['num_hashtags'] = train_df['text'].str.count('#')
train_df['num_mentions'] = train_df['text'].str.count('@')

test_df['num_hashtags'] = test_df['text'].str.count('#')
test_df['num_mentions'] = test_df['text'].str.count('@')

def uppercase_per_word(text):
    text = str(text)

    # Palabras que tengan al menos una letra alfabética
    words = [w for w in text.split() if any(ch.isalpha() for ch in w)]
    if not words:
        return 0.0

    # Solo letras alfabéticas, para evitar que cuenten símbolos raros
    uppercase_letters = sum(ch.isupper() for ch in text if ch.isalpha())
    return uppercase_letters / len(words)

train_df['num_uppercase_per_word'] = train_df['text'].apply(uppercase_per_word)
test_df['num_uppercase_per_word'] = test_df['text'].apply(uppercase_per_word)

analyzer = SentimentIntensityAnalyzer()

def get_sentiment(text):
    if pd.isna(text) or text.strip() == '':
        return 0.5
    compound = analyzer.polarity_scores(text)['compound']
    return (compound + 1) / 2

train_df['sentiment_score'] = train_df['text'].apply(get_sentiment)
test_df['sentiment_score'] = test_df['text'].apply(get_sentiment)

```

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numeric_features = ['text_length', 'num_hashtags', 'num_mentions', 'num_uppercase_per_word', 'sentiment_score', 'has_url']

embedding_feature = 'text'

# 1. Separar features y target
X = train_df[numeric_features + categorical_features + [embedding_feature]].
    ↪copy()
y = train_df['target'].copy()

# 2. Split estratificado train/validation (80/20)
X_train, X_val, y_train, y_val = train_test_split(
    X, y, test_size=0.2, random_state=RANDOM_SEED, stratify=y
)

X_train.head()

```

```
[2]:      text_length  num_hashtags  num_mentions  num_uppercase_per_word \
2721          87           1            0           1.000000
2259         132           0            0           0.083333
1815         136           0            0           1.333333
682          139           0            0           1.666667
7216         121           0            2           0.210526

      sentiment_score  has_url      country      keyword \
2721        0.18755       1  unknown  devastated
2259        0.55135       0  unknown   deluged
1815        0.27205       1  United Kingdom  crashed
682         0.50000       1  unknown   blazing
7216        0.78595       0  United States of America  weapons

                           text
2721  Obama declares disaster for typhoon-devastated...
2259  Businesses are deluged with invzices. Make you...
1815  Neil_Eastwood77: I AM A KNOBHEAD!! Bin Laden f...
682   Morgan Silver Dollar 1880 S Gem BU DMPL Cameo ...
7216  @danagould @WaynesterAtl I agree with backgrou...
```

```
[3]: from sklearn.model_selection import KFold

def kfold_target_encoding(train_series, target_series, n_splits=5,
    ↪random_state=RANDOM_SEED):
    encoded = pd.Series(np.nan, index=train_series.index, dtype=float)
    kf = KFold(n_splits=n_splits, shuffle=True, random_state=random_state)
    global_mean = target_series.mean()

    for train_idx, val_idx in kf.split(train_series):

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fold_df = pd.DataFrame({
    'feature': train_series.iloc[train_idx],
    'target': target_series.iloc[train_idx]
})
means = fold_df.groupby('feature')['target'].mean()
encoded.iloc[val_idx] = train_series.iloc[val_idx].map(means)

encoded.fillna(global_mean, inplace=True)

full_df = pd.DataFrame({'feature': train_series, 'target': target_series})
mapping = full_df.groupby('feature')['target'].mean()

return encoded, mapping, global_mean

mean_encoded_features = []

for column in ['country', 'keyword']:
    train_encoded, mapping, global_mean = kfold_target_encoding(
        X_train[column], y_train
    )
    encoded_col = f'{column}_target_mean'
    # agrego columnas nuevas a los splits
    X_train[encoded_col] = train_encoded
    X_val[encoded_col] = X_val[column].map(mapping).fillna(global_mean)
    test_df[encoded_col] = test_df[column].map(mapping).fillna(global_mean)

    mean_encoded_features.append(encoded_col)

numeric_features = numeric_features + mean_encoded_features

X_train[numeric_features].head()

X_train_numeric = X_train[numeric_features].to_numpy()
X_val_numeric = X_val[numeric_features].to_numpy()
X_test_numeric = test_df[numeric_features].to_numpy()

```

[4]:

```

from sklearn.decomposition import TruncatedSVD
N_COMPONENTS = 30 # Voy a tener que jugar un poco con este hiperparámetro

# Transformer para texto (TF-IDF)
tfidf_vectorizer = TfidfVectorizer(
    max_features=5000,
    ngram_range=(1, 2),
    min_df=2,
    max_df=0.95,

```

```

        strip_accents='unicode',
        lowercase=True,
        analyzer='word',
        token_pattern=r'\w{1,}',
        stop_words='english'
    )

X_train_text = tfidf_vectorizer.fit_transform(X_train[embedding_feature].fillna(''))
X_val_text = tfidf_vectorizer.transform(X_val[embedding_feature].fillna(''))
X_test_text = tfidf_vectorizer.transform(test_df[embedding_feature].fillna(''))

print(f"\nTF-IDF vectorizer:")
print(f"  Vocabulary size: {len(tfidf_vectorizer.vocabulary_)}")
print(f"  Feature names (first 10): {tfidf_vectorizer.get_feature_names_out()[:10].tolist()}")

svd = TruncatedSVD(
    n_components=N_COMPONENTS,
    random_state=RANDOM_SEED
)

X_train_text_15 = svd.fit_transform(X_train_text)
X_val_text_15 = svd.transform(X_val_text)
X_test_text_15 = svd.transform(X_test_text)

X_train_combined = np.hstack([X_train_numeric, X_train_text_15])
X_val_combined = np.hstack([X_val_numeric, X_val_text_15])
X_test_combined = np.hstack([X_test_numeric, X_test_text_15])

print(f"  Test shape: {X_test_combined.shape}")

pd.DataFrame(X_train_combined).head()

```

TF-IDF vectorizer:

Vocabulary size: 5000

Feature names (first 10): ['0', '00', '00 http', '00 pm', '000', '01', '0104', '02', '03', '04']

Test shape: (3263, 38)

[4]:

	0	1	2	3	4	5	6	7	8	\
0	87.0	1.0	0.0	1.000000	0.18755	1.0	0.415596	0.500000	0.130693	
1	132.0	0.0	0.0	0.083333	0.55135	0.0	0.415596	0.357143	0.006938	
2	136.0	0.0	0.0	1.333333	0.27205	1.0	0.367647	0.666667	0.145825	
3	139.0	0.0	0.0	1.666667	0.50000	1.0	0.420105	0.000000	0.226158	

```

4 121.0 0.0 2.0 0.210526 0.78595 0.0 0.428266 0.440000 0.017488

         9     ...    28     ...    29     ...    30     ...    31     ...    32     ...    33 \
0 -0.023265 ... -0.090866 -0.045300 0.027946 0.037595 -0.019196 -0.085282
1  0.004409 ... 0.009903 -0.005538 0.015668 -0.004812 -0.018981 -0.005875
2 -0.009432 ... -0.039281 -0.028005 -0.071769 0.029838 -0.019939 0.017203
3 -0.021638 ... -0.059294 -0.021895 -0.059715 0.032109 -0.033443 -0.027209
4  0.026948 ... -0.011794 0.015972 0.030408 0.008292 -0.035395 0.049585

         34     ...    35     ...    36     ...    37
0  0.077331 -0.027872 -0.043564 0.069854
1 -0.022296 0.027726 -0.019433 0.005867
2  0.001472 -0.034268 -0.009915 -0.017328
3  0.006836 -0.032193 -0.021932 -0.039429
4  0.036662 0.024313 -0.022074 -0.029951

```

[5 rows x 38 columns]

```

[4]: # ! pip install xgboost

from xgboost import XGBClassifier
from sklearn.model_selection import GridSearchCV
from sklearn.metrics import f1_score

# Modelo base
xgb_base = XGBClassifier(
    objective='binary:logistic',          # Para clasificación binaria
    eval_metric='logloss',
    random_state=RANDOM_SEED,
    n_jobs=-1,
    tree_method='hist',
)

# Grid de hiper-parámetros
param_grid_xgb = {
    'n_estimators': [100, 300, 500],
    'max_depth': [3, 6, 10],
    'learning_rate': [0.01, 0.05, 0.1],
    'subsample': [0.7, 0.9, 1],
    'colsample_bytree': [0.5, 0.7, 1],
    'gamma': [0, 1, 5],                  # Umbral para realizar una partición
    'reg_alpha': [0, 0.1, 1],            # L1 () → sparsity
    'reg_lambda': [1, 5, 10]             # L2 () → evitar overfitting
}

grid_search_xgb = GridSearchCV(
    estimator=xgb_base,

```

```

param_grid=param_grid_xgb,
scoring='f1',
cv=3,
n_jobs=-1,
verbose=2
)

# Entrenamos
grid_search_xgb.fit(X_train_combined, y_train)

print(" Mejores hiper-parámetros encontrados para XGBoost:")
print(grid_search_xgb.best_params_)

# Modelo optimizado
best_xgb = grid_search_xgb.best_estimator_

# Predicción y score
y_val_pred = best_xgb.predict(X_val_combined)
f1_val = f1_score(y_val, y_val_pred)

print(f"F1 en validación con XGBoost: {f1_val:.4f}")

```

Fitting 3 folds for each of 6561 candidates, totalling 19683 fits

```

[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=1, subsample=0.9; total time= 1.0s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=5, subsample=1; total time= 0.2s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=1, subsample=0.9; total time= 1.5s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=5, subsample=1; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=10, subsample=0.7; total time= 0.2s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=10, subsample=0.7; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=10, subsample=0.9; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=10, subsample=0.7; total time= 0.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=1, subsample=0.7; total time= 1.8s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=10, subsample=0.9; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=10, subsample=1; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=100, reg_alpha=0, reg_lambda=10, subsample=0.9; total time= 0.3s

```



```
n_estimators=100, reg_alpha=0.1, reg_lambda=10, subsample=0.9; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=0.1, reg_lambda=10, subsample=0.7; total time= 0.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=0.1, reg_lambda=10, subsample=0.9; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=0.1, reg_lambda=10, subsample=0.7; total time= 0.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=0.1, reg_lambda=10, subsample=1; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=0.1, reg_lambda=10, subsample=0.9; total time= 0.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=1, subsample=0.7; total time= 0.2s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=1, subsample=1; total time= 0.2s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=1, subsample=0.7; total time= 0.2s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=1, subsample=0.7; total time= 0.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=1, subsample=0.9; total time= 0.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=0, reg_lambda=5, subsample=0.9; total time= 2.8s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=1, subsample=0.9; total time= 0.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=1, subsample=1; total time= 0.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=1, subsample=1; total time= 0.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=0, reg_lambda=1, subsample=1; total time= 3.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=5, subsample=0.7; total time= 0.2s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3, n_estimators=100, reg_alpha=1, reg_lambda=5, subsample=0.7; total time= 0.3s
```



```
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=500, reg_alpha=0, reg_lambda=10, subsample=1; total time= 1.1s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=500, reg_alpha=0.1, reg_lambda=1, subsample=0.9; total time= 1.2s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=500, reg_alpha=0.1, reg_lambda=1, subsample=0.9; total time= 1.2s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=500, reg_alpha=0.1, reg_lambda=5, subsample=0.7; total time= 1.3s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=500, reg_alpha=0.1, reg_lambda=5, subsample=0.7; total time= 1.4s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=500, reg_alpha=0.1, reg_lambda=1, subsample=1; total time= 1.4s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=500, reg_alpha=0.1, reg_lambda=1, subsample=0.7; total time= 1.7s
[CV] END colsample_bytree=0.5, gamma=0, learning_rate=0.01, max_depth=3,
n_estimators=500, reg_alpha=0.1, reg_lambda=1, subsample=1; total time= 1.7s
```

```
KeyboardInterrupt Traceback (most recent call last)
Cell In[4], line 38
      28 grid_search_xgb = GridSearchCV(
      29     estimator=xgb_base,
      30     param_grid=param_grid_xgb,
(...     34     verbose=2
      35 )
      37 # Entrenamos
--> 38 grid_search_xgb.fit(X_train_combined, y_train)
      40 print(" Mejores hiper-parámetros encontrados para XGBoost:")
      41 print(grid_search_xgb.best_params_)

File ~/FIUBA/ciencia-de-datos/tweet-checker/.venv/lib/python3.12/site-packages/
    ↪sklearn/base.py:1365, in _fit_context.<locals>.decorator.<locals>
    ↪wrapper(estimator, *args, **kwargs)
  1358     estimator._validate_params()
  1360     with config_context(
  1361         skip_parameter_validation=(
  1362             prefer_skip_nested_validation or global_skip_validation
  1363         )
  1364     ):
-> 1365         return fit_method(estimator, *args, **kwargs)

File ~/FIUBA/ciencia-de-datos/tweet-checker/.venv/lib/python3.12/site-packages/
    ↪sklearn/model_selection/_search.py:1051, in BaseSearchCV.fit(self, X, y,**
    ↪**params)
  1045     results = self._format_results(
  1046         all_candidate_params, n_splits, all_out, all_more_results
  1047     )
  1049     return results
```

```

-> 1051 self._run_search(evaluate_candidates)
1053 # multimetric is determined here because in the case of a callable
1054 # self.scoring the return type is only known after calling
1055 first_test_score = all_out[0]["test_scores"]

File ~/FIUBA/ciencia-de-datos/tweet-checker/.venv/lib/python3.12/site-packages/
  ↳sklearn/model_selection/_search.py:1605, in GridSearchCV._run_search(self, ↳
  ↳evaluate_candidates)
  1603 def _run_search(self, evaluate_candidates):
  1604     """Search all candidates in param_grid"""
-> 1605     evaluate_candidates(ParameterGrid(self.param_grid))

File ~/FIUBA/ciencia-de-datos/tweet-checker/.venv/lib/python3.12/site-packages/
  ↳sklearn/model_selection/_search.py:997, in BaseSearchCV.fit.<locals>.
  ↳evaluate_candidates(candidate_params, cv, more_results)
  989 if self.verbose > 0:
  990     print(
  991         "Fitting {0} folds for each of {1} candidates,"
  992         " totalling {2} fits".format(
  993             n_splits, n_candidates, n_candidates * n_splits
  994         )
  995     )
--> 997 out = parallel(
  998     delayed(_fit_and_score)(
  999         clone(base_estimator),
 1000         X,
 1001         y,
 1002         train=train,
 1003         test=test,
 1004         parameters=parameters,
 1005         split_progress=(split_idx, n_splits),
 1006         candidate_progress=(cand_idx, n_candidates),
 1007         **fit_and_score_kwargs,
 1008     )
 1009     for (cand_idx, parameters), (split_idx, (train, test)) in product(
 1010         enumerate(candidate_params),
 1011         enumerate(cv.split(X, y, **routed_params.splitter.split)),
 1012     )
 1013 )
 1015 if len(out) < 1:
 1016     raise ValueError(
 1017         "No fits were performed. "
 1018         "Was the CV iterator empty? "
 1019         "Were there no candidates?"
 1020     )

File ~/FIUBA/ciencia-de-datos/tweet-checker/.venv/lib/python3.12/site-packages/
  ↳sklearn/utils/parallel.py:82, in Parallel.__call__(self, iterable)

```

```

73 warning_filters = warnings.filters
74 iterable_with_config_and_warning_filters = (
75     (
76         _with_config_and_warning_filters(delayed_func, config, u
77 warning_filters),
78     80     for delayed_func, args, kwargs in iterable
79 )
--> 82 return super().__call__(iterable_with_config_and_warning_filters)

File ~/FIUBA/ciencia-de-datos/tweet-checker/.venv/lib/python3.12/site-packages/
↳joblib/parallel.py:2072, in Parallel.__call__(self, iterable)
2066 # The first item from the output is blank, but it makes the interpreter
2067 # progress until it enters the Try/Except block of the generator and
2068 # reaches the first `yield` statement. This starts the asynchronous
2069 # dispatch of the tasks to the workers.
2070 next(output)
-> 2072 return output if self.return_generator else list(output)

File ~/FIUBA/ciencia-de-datos/tweet-checker/.venv/lib/python3.12/site-packages/
↳joblib/parallel.py:1682, in Parallel._get_outputs(self, iterator, pre_dispatch)
1679     yield
1680     with self._backend.retrieval_context():
-> 1682         yield from self._retrieve()
1684 except GeneratorExit:
1685     # The generator has been garbage collected before being fully
1686     # consumed. This aborts the remaining tasks if possible and warn
1687     # the user if necessary.
1688     self._exception = True

File ~/FIUBA/ciencia-de-datos/tweet-checker/.venv/lib/python3.12/site-packages/
↳joblib/parallel.py:1800, in Parallel._retrieve(self)
1789 if self.return_ordered:
1790     # Case ordered: wait for completion (or error) of the next job
1791     # that have been dispatched and not retrieved yet. If no job
(... 1795     # control only have to be done on the amount of time the next
1796     # dispatched job is pending.
1797     if (nb_jobs == 0) or (
1798         self._jobs[0].get_status(timeout=self.timeout) == TASK_PENDING
1799     ):
-> 1800         time.sleep(0.01)
1801         continue
1803 elif nb_jobs == 0:
1804     # Case unordered: jobs are added to the list of jobs to
1805     # retrieve `self._jobs` only once completed or in error, which
(... 1811     # timeouts before any other dispatched job has completed and
1812     # been added to `self._jobs` to be retrieved.

```

KeyboardInterrupt:

Mmmm sigue siendo bastante malo. 0.74 en f1 y tomó 1 hora! No puede ser que sea mejor mi regresión lineal, qué bajón. Voy a probar hacer un Pipeline con el TF-IDF para jugar con esos parámetros también. Aparte mejor usar RandomizedSearchCV en vez de GridSearchCV para que sea más rápido.

```
[ ]: from sklearn.compose import ColumnTransformer
from sklearn.preprocessing import StandardScaler
from sklearn.pipeline import Pipeline
from xgboost import XGBClassifier

text_feature = 'text'
feature_columns = numeric_features

preprocessor = ColumnTransformer(
    transformers=[
        ("text", TfidfVectorizer(
            strip_accents="unicode",
            lowercase=True,
            analyzer="word",
            token_pattern=r"\w{1,}",
            stop_words="english"
        ), text_feature),
        ("num", "passthrough", feature_columns)
    ],
    remainder="drop"
)

pipeline = Pipeline([
    ("preprocessor", preprocessor),
    ("clf", XGBClassifier(
        objective="binary:logistic",
        tree_method="hist",
        n_jobs=-1,
        eval_metric="logloss",
        random_state=RANDOM_SEED
    ))
])
```

```
[6]: from scipy.stats import randint, uniform

param_distributions = {

    # TF-IDF dentro del ColumnTransformer
    "preprocessor__text__max_features": randint(3000, 9000),
```

```

"preprocessor__text__ngram_range": [(1,1), (1,2)],
"preprocessor__text__min_df": randint(1, 4),
"preprocessor__text__sublinear_tf": [True, False],
"preprocessor__text__smooth_idf": [True, False],


# XGBoost
"clf__n_estimators": randint(300, 900),
"clf__learning_rate": uniform(0.03, 0.12),
"clf__max_depth": randint(3, 9),
"clf__subsample": uniform(0.7, 0.3),
"clf__colsample_bytree": uniform(0.6, 0.4),
"clf__min_child_weight": randint(1, 6),
}

```

[7]: `from sklearn.model_selection import RandomizedSearchCV`

```

rand_search_xgb = RandomizedSearchCV(
    estimator=pipeline,
    param_distributions=param_distributions,
    n_iter=500,
    cv=3,
    scoring="f1",
    verbose=2,
    n_jobs=-1,
    random_state=RANDOM_SEED,
)

rand_search_xgb.fit(X_train, y_train)

print("Mejores hiperparámetros encontrados:")
print(rand_search_xgb.best_params_)

best_pipeline_xgb = rand_search_xgb.best_estimator_

# Evaluación rápida
y_val_pred = best_pipeline_xgb.predict(X_val)
print("F1 en validation:", f1_score(y_val, y_val_pred))

```

Fitting 3 folds for each of 500 candidates, totalling 1500 fits

[CV] END clf__colsample_bytree=0.7702885642075583,
clf__learning_rate=0.12775004885934632, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=593,
clf__subsample=0.8153764018044936, preprocessor__text__max_features=7237,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.7s

[CV] END clf__colsample_bytree=0.6838860679017502,
clf__learning_rate=0.11901931768952889, clf__max_depth=4,

```

clf__min_child_weight=5, clf__n_estimators=738,
clf__subsample=0.9574038136406637, preprocessor__text__max_features=4551,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.6838860679017502,
clf__learning_rate=0.11901931768952889, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=738,
clf__subsample=0.9574038136406637, preprocessor__text__max_features=4551,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.7s
[CV] END clf__colsample_bytree=0.8804284691566151,
clf__learning_rate=0.05171758549204427, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=451,
clf__subsample=0.8299365964993599, preprocessor__text__max_features=4815,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.5s
[CV] END clf__colsample_bytree=0.6838860679017502,
clf__learning_rate=0.11901931768952889, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=738,
clf__subsample=0.9574038136406637, preprocessor__text__max_features=4551,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.9s
[CV] END clf__colsample_bytree=0.7702885642075583,
clf__learning_rate=0.12775004885934632, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=593,
clf__subsample=0.8153764018044936, preprocessor__text__max_features=7237,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.7702885642075583,
clf__learning_rate=0.12775004885934632, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=593,
clf__subsample=0.8153764018044936, preprocessor__text__max_features=7237,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.6369687655511193,
clf__learning_rate=0.031635540195720395, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=865,
clf__subsample=0.8376197115434398, preprocessor__text__max_features=6822,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.1s
[CV] END clf__colsample_bytree=0.6369687655511193,

```

```

clf__learning_rate=0.031635540195720395, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=865,
clf__subsample=0.8376197115434398, preprocessor__text__max_features=6822,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.8s
[CV] END clf__colsample_bytree=0.6369687655511193,
clf__learning_rate=0.031635540195720395, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=865,
clf__subsample=0.8376197115434398, preprocessor__text__max_features=6822,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.6269548367647452,
clf__learning_rate=0.05468831848536106, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=487,
clf__subsample=0.7001630331202368, preprocessor__text__max_features=7087,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.3s
[CV] END clf__colsample_bytree=0.6269548367647452,
clf__learning_rate=0.05468831848536106, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=487,
clf__subsample=0.7001630331202368, preprocessor__text__max_features=7087,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 16.5s
[CV] END clf__colsample_bytree=0.8804284691566151,
clf__learning_rate=0.05171758549204427, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=451,
clf__subsample=0.8299365964993599, preprocessor__text__max_features=4815,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 17.1s
[CV] END clf__colsample_bytree=0.867277775073507,
clf__learning_rate=0.12874469669224603, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=304,
clf__subsample=0.7235925039564385, preprocessor__text__max_features=6490,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.6s
[CV] END clf__colsample_bytree=0.8804284691566151,
clf__learning_rate=0.05171758549204427, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=451,
clf__subsample=0.8299365964993599, preprocessor__text__max_features=4815,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 20.2s

```

```

[CV] END clf__colsample_bytree=0.867277775073507,
clf__learning_rate=0.12874469669224603, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=304,
clf__subsample=0.7235925039564385, preprocessor__text__max_features=6490,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.9s
[CV] END clf__colsample_bytree=0.6269548367647452,
clf__learning_rate=0.05468831848536106, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=487,
clf__subsample=0.7001630331202368, preprocessor__text__max_features=7087,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 23.5s
[CV] END clf__colsample_bytree=0.9368309944140778,
clf__learning_rate=0.13238987562393814, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=489,
clf__subsample=0.7226013183737989, preprocessor__text__max_features=8790,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.9s
[CV] END clf__colsample_bytree=0.867277775073507,
clf__learning_rate=0.12874469669224603, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=304,
clf__subsample=0.7235925039564385, preprocessor__text__max_features=6490,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.1s
[CV] END clf__colsample_bytree=0.9368309944140778,
clf__learning_rate=0.13238987562393814, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=489,
clf__subsample=0.7226013183737989, preprocessor__text__max_features=8790,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.8s
[CV] END clf__colsample_bytree=0.7105842923261655,
clf__learning_rate=0.09438071560311288, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=435,
clf__subsample=0.9163457131141214, preprocessor__text__max_features=4589,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.7s
[CV] END clf__colsample_bytree=0.97259281795007,
clf__learning_rate=0.03656881076984456, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=876,
clf__subsample=0.7228110896115073, preprocessor__text__max_features=6874,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

```

```

total time= 25.5s
[CV] END clf__colsample_bytree=0.97259281795007,
clf__learning_rate=0.03656881076984456, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=876,
clf__subsample=0.7228110896115073, preprocessor__text__max_features=6874,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 27.0s
[CV] END clf__colsample_bytree=0.9368309944140778,
clf__learning_rate=0.13238987562393814, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=489,
clf__subsample=0.7226013183737989, preprocessor__text__max_features=8790,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.9s
[CV] END clf__colsample_bytree=0.8957643920474374,
clf__learning_rate=0.05198307458342705, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=341,
clf__subsample=0.9128946916624631, preprocessor__text__max_features=5617,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.4s
[CV] END clf__colsample_bytree=0.8957643920474374,
clf__learning_rate=0.05198307458342705, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=341,
clf__subsample=0.9128946916624631, preprocessor__text__max_features=5617,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.1s
[CV] END clf__colsample_bytree=0.8957643920474374,
clf__learning_rate=0.05198307458342705, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=341,
clf__subsample=0.9128946916624631, preprocessor__text__max_features=5617,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.4s
[CV] END clf__colsample_bytree=0.7105842923261655,
clf__learning_rate=0.09438071560311288, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=435,
clf__subsample=0.9163457131141214, preprocessor__text__max_features=4589,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.6s
[CV] END clf__colsample_bytree=0.6060351686075536,
clf__learning_rate=0.07718567473873386, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=893,
clf__subsample=0.7582324393540831, preprocessor__text__max_features=3930,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),

```

```

preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.6s
[CV] END clf__colsample_bytree=0.97259281795007,
clf__learning_rate=0.03656881076984456, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=876,
clf__subsample=0.7228110896115073, preprocessor__text__max_features=6874,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 31.2s
[CV] END clf__colsample_bytree=0.8487298625212016,
clf__learning_rate=0.13976096270880098, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=814,
clf__subsample=0.7364973790735703, preprocessor__text__max_features=3124,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 20.3s
[CV] END clf__colsample_bytree=0.8487298625212016,
clf__learning_rate=0.13976096270880098, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=814,
clf__subsample=0.7364973790735703, preprocessor__text__max_features=3124,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 21.2s
[CV] END clf__colsample_bytree=0.8487298625212016,
clf__learning_rate=0.13976096270880098, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=814,
clf__subsample=0.7364973790735703, preprocessor__text__max_features=3124,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 20.8s
[CV] END clf__colsample_bytree=0.8233456149016991,
clf__learning_rate=0.114132045421356, clf__max_depth=4, clf__min_child_weight=1,
clf__n_estimators=514, clf__subsample=0.9487180197318968,
preprocessor__text__max_features=8241, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 5.5s
[CV] END clf__colsample_bytree=0.6840509844912357,
clf__learning_rate=0.14313019412774497, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=752,
clf__subsample=0.9841286191789224, preprocessor__text__max_features=4236,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.6840509844912357,
clf__learning_rate=0.14313019412774497, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=752,
clf__subsample=0.9841286191789224, preprocessor__text__max_features=4236,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),

```

```

preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.6s
[CV] END clf__colsample_bytree=0.8233456149016991,
clf__learning_rate=0.114132045421356, clf__max_depth=4, clf__min_child_weight=1,
clf__n_estimators=514, clf__subsample=0.9487180197318968,
preprocessor__text__max_features=8241, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 7.1s
[CV] END clf__colsample_bytree=0.6840509844912357,
clf__learning_rate=0.14313019412774497, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=752,
clf__subsample=0.9841286191789224, preprocessor__text__max_features=4236,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.6s
[CV] END clf__colsample_bytree=0.7105842923261655,
clf__learning_rate=0.09438071560311288, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=435,
clf__subsample=0.9163457131141214, preprocessor__text__max_features=4589,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.8s
[CV] END clf__colsample_bytree=0.6060351686075536,
clf__learning_rate=0.07718567473873386, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=893,
clf__subsample=0.7582324393540831, preprocessor__text__max_features=3930,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.1s
[CV] END clf__colsample_bytree=0.8233456149016991,
clf__learning_rate=0.114132045421356, clf__max_depth=4, clf__min_child_weight=1,
clf__n_estimators=514, clf__subsample=0.9487180197318968,
preprocessor__text__max_features=8241, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 9.4s
[CV] END clf__colsample_bytree=0.6060351686075536,
clf__learning_rate=0.07718567473873386, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=893,
clf__subsample=0.7582324393540831, preprocessor__text__max_features=3930,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 22.8s
[CV] END clf__colsample_bytree=0.6896736504662861,
clf__learning_rate=0.11024210516181958, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=648,
clf__subsample=0.8214782411900929, preprocessor__text__max_features=8481,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

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total time= 10.7s
[CV] END clf__colsample_bytree=0.8531960764950476,
clf__learning_rate=0.13192350029831912, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=831,
clf__subsample=0.754745588909714, preprocessor__text__max_features=6584,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.6s
[CV] END clf__colsample_bytree=0.8531960764950476,
clf__learning_rate=0.13192350029831912, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=831,
clf__subsample=0.754745588909714, preprocessor__text__max_features=6584,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.4s
[CV] END clf__colsample_bytree=0.6786943498084529,
clf__learning_rate=0.14763046595039808, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=362, clf__subsample=0.70435344253148,
preprocessor__text__max_features=5234, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=True; total time= 8.5s
[CV] END clf__colsample_bytree=0.6896736504662861,
clf__learning_rate=0.11024210516181958, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=648,
clf__subsample=0.8214782411900929, preprocessor__text__max_features=8481,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.5s
[CV] END clf__colsample_bytree=0.8782597889833148,
clf__learning_rate=0.12010877929401274, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=355,
clf__subsample=0.8041249922408655, preprocessor__text__max_features=6182,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.6s
[CV] END clf__colsample_bytree=0.6896736504662861,
clf__learning_rate=0.11024210516181958, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=648,
clf__subsample=0.8214782411900929, preprocessor__text__max_features=8481,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.6s
[CV] END clf__colsample_bytree=0.8861847692339129,
clf__learning_rate=0.07834029514577742, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=390,
clf__subsample=0.9593752232420999, preprocessor__text__max_features=3170,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 2.8s
[CV] END clf__colsample_bytree=0.8861847692339129,
clf__learning_rate=0.07834029514577742, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=390,
clf__subsample=0.9593752232420999, preprocessor__text__max_features=3170,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.4s
[CV] END clf__colsample_bytree=0.8782597889833148,
clf__learning_rate=0.12010877929401274, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=355,
clf__subsample=0.8041249922408655, preprocessor__text__max_features=6182,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.4s
[CV] END clf__colsample_bytree=0.8861847692339129,
clf__learning_rate=0.07834029514577742, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=390,
clf__subsample=0.9593752232420999, preprocessor__text__max_features=3170,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.1s
[CV] END clf__colsample_bytree=0.6786943498084529,
clf__learning_rate=0.14763046595039808, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=362, clf__subsample=0.70435344253148,
preprocessor__text__max_features=5234, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=True; total time= 12.6s
[CV] END clf__colsample_bytree=0.8782597889833148,
clf__learning_rate=0.12010877929401274, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=355,
clf__subsample=0.8041249922408655, preprocessor__text__max_features=6182,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.644796363089242,
clf__learning_rate=0.08373091639267052, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=673,
clf__subsample=0.9620512926728624, preprocessor__text__max_features=5205,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 17.2s
[CV] END clf__colsample_bytree=0.6786943498084529,
clf__learning_rate=0.14763046595039808, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=362, clf__subsample=0.70435344253148,
preprocessor__text__max_features=5234, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=True; total time= 12.9s

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[CV] END clf__colsample_bytree=0.8531960764950476,
clf__learning_rate=0.13192350029831912, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=831,
clf__subsample=0.754745588909714, preprocessor__text__max_features=6584,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.9s
[CV] END clf__colsample_bytree=0.8138380189753145,
clf__learning_rate=0.14330173349536274, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=729,
clf__subsample=0.7284817330530935, preprocessor__text__max_features=4971,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.6s
[CV] END clf__colsample_bytree=0.9634105124184102,
clf__learning_rate=0.07283693428769915, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=581,
clf__subsample=0.8759311948189727, preprocessor__text__max_features=6262,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 18.3s
[CV] END clf__colsample_bytree=0.6179179178391386,
clf__learning_rate=0.10872235330739578, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=627,
clf__subsample=0.9876645601666193, preprocessor__text__max_features=6606,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.1s
[CV] END clf__colsample_bytree=0.644796363089242,
clf__learning_rate=0.08373091639267052, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=673,
clf__subsample=0.9620512926728624, preprocessor__text__max_features=5205,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.2s
[CV] END clf__colsample_bytree=0.8138380189753145,
clf__learning_rate=0.14330173349536274, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=729,
clf__subsample=0.7284817330530935, preprocessor__text__max_features=4971,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.9s
[CV] END clf__colsample_bytree=0.9383195184307102,
clf__learning_rate=0.03696100735702259, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=345,
clf__subsample=0.8420630613022205, preprocessor__text__max_features=7421,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

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total time= 5.9s
[CV] END clf__colsample_bytree=0.9383195184307102,
clf__learning_rate=0.03696100735702259, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=345,
clf__subsample=0.8420630613022205, preprocessors__text__max_features=7421,
preprocessor__text__min_df=2, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 5.6s
[CV] END clf__colsample_bytree=0.9583991645825045,
clf__learning_rate=0.035799089525413795, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=515,
clf__subsample=0.7249958695038021, preprocessors__text__max_features=7241,
preprocessor__text__min_df=2, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 2.2s
[CV] END clf__colsample_bytree=0.9634105124184102,
clf__learning_rate=0.07283693428769915, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=581,
clf__subsample=0.8759311948189727, preprocessors__text__max_features=6262,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 21.4s
[CV] END clf__colsample_bytree=0.8138380189753145,
clf__learning_rate=0.14330173349536274, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=729,
clf__subsample=0.7284817330530935, preprocessors__text__max_features=4971,
preprocessor__text__min_df=2, preprocessors__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 9.4s
[CV] END clf__colsample_bytree=0.9383195184307102,
clf__learning_rate=0.03696100735702259, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=345,
clf__subsample=0.8420630613022205, preprocessors__text__max_features=7421,
preprocessor__text__min_df=2, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 6.2s
[CV] END clf__colsample_bytree=0.7578355501838442,
clf__learning_rate=0.1458384790494349, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=356,
clf__subsample=0.8265936304285282, preprocessors__text__max_features=3384,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 6.1s
[CV] END clf__colsample_bytree=0.9634105124184102,
clf__learning_rate=0.07283693428769915, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=581,
clf__subsample=0.8759311948189727, preprocessors__text__max_features=6262,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 22.1s
[CV] END clf__colsample_bytree=0.7578355501838442,
clf__learning_rate=0.1458384790494349, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=356,
clf__subsample=0.8265936304285282, preprocessor__text__max_features=3384,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.4s
[CV] END clf__colsample_bytree=0.9583991645825045,
clf__learning_rate=0.035799089525413795, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=515,
clf__subsample=0.7249958695038021, preprocessor__text__max_features=7241,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.9s
[CV] END clf__colsample_bytree=0.7578355501838442,
clf__learning_rate=0.1458384790494349, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=356,
clf__subsample=0.8265936304285282, preprocessor__text__max_features=3384,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.6s
[CV] END clf__colsample_bytree=0.6179179178391386,
clf__learning_rate=0.10872235330739578, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=627,
clf__subsample=0.9876645601666193, preprocessor__text__max_features=6606,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.9s
[CV] END clf__colsample_bytree=0.9583991645825045,
clf__learning_rate=0.035799089525413795, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=515,
clf__subsample=0.7249958695038021, preprocessor__text__max_features=7241,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.1s
[CV] END clf__colsample_bytree=0.6095179240683133,
clf__learning_rate=0.14211132109249244, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=368,
clf__subsample=0.9388557607754765, preprocessor__text__max_features=8351,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.6095179240683133,
clf__learning_rate=0.14211132109249244, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=368,
clf__subsample=0.9388557607754765, preprocessor__text__max_features=8351,

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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.644796363089242,
clf__learning_rate=0.08373091639267052, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=673,
clf__subsample=0.9620512926728624, preprocessor__text__max_features=5205,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 25.3s
[CV] END clf__colsample_bytree=0.6179179178391386,
clf__learning_rate=0.10872235330739578, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=627,
clf__subsample=0.9876645601666193, preprocessor__text__max_features=6606,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.5s
[CV] END clf__colsample_bytree=0.6095179240683133,
clf__learning_rate=0.14211132109249244, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=368,
clf__subsample=0.9388557607754765, preprocessor__text__max_features=8351,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.1s
[CV] END clf__colsample_bytree=0.9007314013804235,
clf__learning_rate=0.07996237723384535, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=628,
clf__subsample=0.8653470946347039, preprocessor__text__max_features=7207,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.5s
[CV] END clf__colsample_bytree=0.9007314013804235,
clf__learning_rate=0.07996237723384535, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=628,
clf__subsample=0.8653470946347039, preprocessor__text__max_features=7207,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.7s
[CV] END clf__colsample_bytree=0.9492561337547804,
clf__learning_rate=0.06486161730975451, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=351,
clf__subsample=0.7068962631228854, preprocessor__text__max_features=3633,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.2s
[CV] END clf__colsample_bytree=0.8578915346194453,
clf__learning_rate=0.1412585766088424, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=640,

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clf__subsample=0.7565063332139269, preprocessor__text__max_features=7653,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.9007314013804235,
clf__learning_rate=0.07996237723384535, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=628,
clf__subsample=0.8653470946347039, preprocessor__text__max_features=7207,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.4s
[CV] END clf__colsample_bytree=0.9887411985276982,
clf__learning_rate=0.13962754040110137, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=805,
clf__subsample=0.9832636832144428, preprocessor__text__max_features=8036,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.0s
[CV] END clf__colsample_bytree=0.8578915346194453,
clf__learning_rate=0.1412585766088424, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=640,
clf__subsample=0.7565063332139269, preprocessor__text__max_features=7653,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.1s
[CV] END clf__colsample_bytree=0.9492561337547804,
clf__learning_rate=0.06486161730975451, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=351,
clf__subsample=0.7068962631228854, preprocessor__text__max_features=3633,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 16.5s
[CV] END clf__colsample_bytree=0.9492561337547804,
clf__learning_rate=0.06486161730975451, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=351,
clf__subsample=0.7068962631228854, preprocessor__text__max_features=3633,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 17.8s
[CV] END clf__colsample_bytree=0.9887411985276982,
clf__learning_rate=0.13962754040110137, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=805,
clf__subsample=0.9832636832144428, preprocessor__text__max_features=8036,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.8s
[CV] END clf__colsample_bytree=0.8578915346194453,
clf__learning_rate=0.1412585766088424, clf__max_depth=3,

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clf__min_child_weight=4, clf__n_estimators=640,
clf__subsample=0.7565063332139269, preprocessor__text__max_features=7653,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.7s
[CV] END clf__colsample_bytree=0.8224101717969312,
clf__learning_rate=0.1334881737369521, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=675,
clf__subsample=0.9615700638691447, preprocessor__text__max_features=4724,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 18.1s
[CV] END clf__colsample_bytree=0.736949721674641,
clf__learning_rate=0.06473029692119575, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=533,
clf__subsample=0.8522540496099156, preprocessor__text__max_features=5665,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 17.2s
[CV] END clf__colsample_bytree=0.8224101717969312,
clf__learning_rate=0.1334881737369521, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=675,
clf__subsample=0.9615700638691447, preprocessor__text__max_features=4724,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 18.4s
[CV] END clf__colsample_bytree=0.9887411985276982,
clf__learning_rate=0.13962754040110137, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=805,
clf__subsample=0.9832636832144428, preprocessor__text__max_features=8036,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 17.2s
[CV] END clf__colsample_bytree=0.8224101717969312,
clf__learning_rate=0.1334881737369521, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=675,
clf__subsample=0.9615700638691447, preprocessor__text__max_features=4724,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 20.4s
[CV] END clf__colsample_bytree=0.827742353581542,
clf__learning_rate=0.05035498983724525, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=353,
clf__subsample=0.7373594751935394, preprocessor__text__max_features=3429,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 1.9s
[CV] END clf__colsample_bytree=0.827742353581542,

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clf__learning_rate=0.05035498983724525, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=353,
clf__subsample=0.7373594751935394, preprocessor__text__max_features=3429,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.0s
[CV] END clf__colsample_bytree=0.736949721674641,
clf__learning_rate=0.06473029692119575, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=533,
clf__subsample=0.8522540496099156, preprocessor__text__max_features=5665,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 21.5s
[CV] END clf__colsample_bytree=0.736949721674641,
clf__learning_rate=0.06473029692119575, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=533,
clf__subsample=0.8522540496099156, preprocessor__text__max_features=5665,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 21.4s
[CV] END clf__colsample_bytree=0.9519045129022287,
clf__learning_rate=0.07056960729877006, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=668,
clf__subsample=0.9681073830782267, preprocessor__text__max_features=3698,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.6s
[CV] END clf__colsample_bytree=0.9883885800745624,
clf__learning_rate=0.07059515516568993, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=444,
clf__subsample=0.8195893330288925, preprocessor__text__max_features=7386,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.2s
[CV] END clf__colsample_bytree=0.859738332501885,
clf__learning_rate=0.13143264673348293, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=897,
clf__subsample=0.9680294284479973, preprocessor__text__max_features=6992,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 16.1s
[CV] END clf__colsample_bytree=0.827742353581542,
clf__learning_rate=0.05035498983724525, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=353,
clf__subsample=0.7373594751935394, preprocessor__text__max_features=3429,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.4s

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[CV] END clf__colsample_bytree=0.9519045129022287,
clf__learning_rate=0.07056960729877006, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=668,
clf__subsample=0.9681073830782267, preprocessors__text__max_features=3698,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=True, preprocessors__text__sublinear_tf=False;
total time= 12.8s
[CV] END clf__colsample_bytree=0.6297353177628603,
clf__learning_rate=0.05501844549248869, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=554,
clf__subsample=0.9877287846804947, preprocessors__text__max_features=8629,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=True, preprocessors__text__sublinear_tf=False;
total time= 5.6s
[CV] END clf__colsample_bytree=0.9595196323470206,
clf__learning_rate=0.06266601010573003, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=854,
clf__subsample=0.8523125026922604, preprocessors__text__max_features=7663,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=True, preprocessors__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.859738332501885,
clf__learning_rate=0.13143264673348293, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=897,
clf__subsample=0.9680294284479973, preprocessors__text__max_features=6992,
preprocessors__text__min_df=3, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 17.6s
[CV] END clf__colsample_bytree=0.6297353177628603,
clf__learning_rate=0.05501844549248869, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=554,
clf__subsample=0.9877287846804947, preprocessors__text__max_features=8629,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=True, preprocessors__text__sublinear_tf=False;
total time= 5.5s
[CV] END clf__colsample_bytree=0.9883885800745624,
clf__learning_rate=0.07059515516568993, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=444,
clf__subsample=0.819589330288925, preprocessors__text__max_features=7386,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=True, preprocessors__text__sublinear_tf=False;
total time= 18.8s
[CV] END clf__colsample_bytree=0.9519045129022287,
clf__learning_rate=0.07056960729877006, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=668,
clf__subsample=0.9681073830782267, preprocessors__text__max_features=3698,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=True, preprocessors__text__sublinear_tf=False;

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total time= 16.1s
[CV] END clf__colsample_bytree=0.859738332501885,
clf__learning_rate=0.13143264673348293, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=897,
clf__subsample=0.9680294284479973, preprocessor__text__max_features=6992,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 21.2s
[CV] END clf__colsample_bytree=0.6297353177628603,
clf__learning_rate=0.05501844549248869, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=554,
clf__subsample=0.9877287846804947, preprocessor__text__max_features=8629,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.9s
[CV] END clf__colsample_bytree=0.9883885800745624,
clf__learning_rate=0.07059515516568993, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=444,
clf__subsample=0.8195893330288925, preprocessor__text__max_features=7386,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 22.2s
[CV] END clf__colsample_bytree=0.9186707986284105,
clf__learning_rate=0.14945904149703798, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=711,
clf__subsample=0.9774107739816846, preprocessor__text__max_features=3798,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.4s
[CV] END clf__colsample_bytree=0.9186707986284105,
clf__learning_rate=0.14945904149703798, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=711,
clf__subsample=0.9774107739816846, preprocessor__text__max_features=3798,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.9186707986284105,
clf__learning_rate=0.14945904149703798, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=711,
clf__subsample=0.9774107739816846, preprocessor__text__max_features=3798,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.2s
[CV] END clf__colsample_bytree=0.9595196323470206,
clf__learning_rate=0.06266601010573003, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=854,
clf__subsample=0.8523125026922604, preprocessor__text__max_features=7663,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 21.4s
[CV] END clf__colsample_bytree=0.9595196323470206,
clf__learning_rate=0.06266601010573003, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=854,
clf__subsample=0.8523125026922604, preprocessor__text__max_features=7663,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 22.1s
[CV] END clf__colsample_bytree=0.640547176561735,
clf__learning_rate=0.05328040761304924, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=328,
clf__subsample=0.9024105025004618, preprocessor__text__max_features=7257,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.7s
[CV] END clf__colsample_bytree=0.640547176561735,
clf__learning_rate=0.05328040761304924, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=328,
clf__subsample=0.9024105025004618, preprocessor__text__max_features=7257,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 17.3s
[CV] END clf__colsample_bytree=0.8734353150144187,
clf__learning_rate=0.11477560099187335, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=667,
clf__subsample=0.7544554817984694, preprocessor__text__max_features=8382,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.9s
[CV] END clf__colsample_bytree=0.640547176561735,
clf__learning_rate=0.05328040761304924, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=328,
clf__subsample=0.9024105025004618, preprocessor__text__max_features=7257,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 20.1s
[CV] END clf__colsample_bytree=0.800639991300685,
clf__learning_rate=0.0677233071519452, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=568,
clf__subsample=0.8002119164525804, preprocessor__text__max_features=4229,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.3s
[CV] END clf__colsample_bytree=0.8734353150144187,
clf__learning_rate=0.11477560099187335, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=667,
clf__subsample=0.7544554817984694, preprocessor__text__max_features=8382,
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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.1s
[CV] END clf__colsample_bytree=0.7826667095101798,
clf__learning_rate=0.14890945400945024, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=694,
clf__subsample=0.8946907724199561, preprocessor__text__max_features=6213,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 19.9s
[CV] END clf__colsample_bytree=0.800639991300685,
clf__learning_rate=0.0677233071519452, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=568,
clf__subsample=0.8002119164525804, preprocessor__text__max_features=4229,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.3s
[CV] END clf__colsample_bytree=0.7452762981266183,
clf__learning_rate=0.11480428854454744, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=672,
clf__subsample=0.9211014548900669, preprocessor__text__max_features=4891,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.5s
[CV] END clf__colsample_bytree=0.8734353150144187,
clf__learning_rate=0.11477560099187335, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=667,
clf__subsample=0.7544554817984694, preprocessor__text__max_features=8382,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.1s
[CV] END clf__colsample_bytree=0.8595033575860713,
clf__learning_rate=0.044117012076367965, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=899,
clf__subsample=0.8886389363614521, preprocessor__text__max_features=8460,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.0s
[CV] END clf__colsample_bytree=0.8595033575860713,
clf__learning_rate=0.044117012076367965, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=899,
clf__subsample=0.8886389363614521, preprocessor__text__max_features=8460,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.5s
[CV] END clf__colsample_bytree=0.7826667095101798,
clf__learning_rate=0.14890945400945024, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=694,
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clf__subsample=0.8946907724199561, preprocessor__text__max_features=6213,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 24.0s
[CV] END clf__colsample_bytree=0.7452762981266183,
clf__learning_rate=0.11480428854454744, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=672,
clf__subsample=0.9211014548900669, preprocessor__text__max_features=4891,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 14.5s
[CV] END clf__colsample_bytree=0.7452762981266183,
clf__learning_rate=0.11480428854454744, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=672,
clf__subsample=0.9211014548900669, preprocessor__text__max_features=4891,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.8s
[CV] END clf__colsample_bytree=0.7826667095101798,
clf__learning_rate=0.14890945400945024, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=694,
clf__subsample=0.8946907724199561, preprocessor__text__max_features=6213,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 25.9s
[CV] END clf__colsample_bytree=0.8605305035883084,
clf__learning_rate=0.14243383153370784, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=504,
clf__subsample=0.9619219248422343, preprocessor__text__max_features=6587,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.5s
[CV] END clf__colsample_bytree=0.8299462029662863,
clf__learning_rate=0.047328193723815505, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=863,
clf__subsample=0.7177402353919704, preprocessor__text__max_features=5714,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.7s
[CV] END clf__colsample_bytree=0.8605305035883084,
clf__learning_rate=0.14243383153370784, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=504,
clf__subsample=0.9619219248422343, preprocessor__text__max_features=6587,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.6s
[CV] END clf__colsample_bytree=0.8595033575860713,
clf__learning_rate=0.044117012076367965, clf__max_depth=8,

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clf__min_child_weight=5, clf__n_estimators=899,
clf__subsample=0.8886389363614521, preprocessor__text__max_features=8460,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 26.5s
[CV] END clf__colsample_bytree=0.800639991300685,
clf__learning_rate=0.0677233071519452, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=568,
clf__subsample=0.8002119164525804, preprocessor__text__max_features=4229,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.1s
[CV] END clf__colsample_bytree=0.8969040827978125,
clf__learning_rate=0.05831444496587704, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=636,
clf__subsample=0.808003989930191, preprocessor__text__max_features=5785,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.0s
[CV] END clf__colsample_bytree=0.8299462029662863,
clf__learning_rate=0.047328193723815505, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=863,
clf__subsample=0.7177402353919704, preprocessor__text__max_features=5714,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.3s
[CV] END clf__colsample_bytree=0.8969040827978125,
clf__learning_rate=0.05831444496587704, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=636,
clf__subsample=0.808003989930191, preprocessor__text__max_features=5785,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.7s
[CV] END clf__colsample_bytree=0.8299462029662863,
clf__learning_rate=0.047328193723815505, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=863,
clf__subsample=0.7177402353919704, preprocessor__text__max_features=5714,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.2s
[CV] END clf__colsample_bytree=0.8969040827978125,
clf__learning_rate=0.05831444496587704, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=636,
clf__subsample=0.808003989930191, preprocessor__text__max_features=5785,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.7s
[CV] END clf__colsample_bytree=0.8605305035883084,

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clf__learning_rate=0.14243383153370784, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=504,
clf__subsample=0.9619219248422343, preprocessor__text__max_features=6587,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.3s
[CV] END clf__colsample_bytree=0.6429976878467903,
clf__learning_rate=0.08206397719488233, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=717,
clf__subsample=0.7196753052852535, preprocessor__text__max_features=6501,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 21.5s
[CV] END clf__colsample_bytree=0.7033276105969152,
clf__learning_rate=0.04523966100573274, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=430,
clf__subsample=0.7363952000628373, preprocessor__text__max_features=8643,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.0s
[CV] END clf__colsample_bytree=0.6429976878467903,
clf__learning_rate=0.08206397719488233, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=717,
clf__subsample=0.7196753052852535, preprocessor__text__max_features=6501,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 23.4s
[CV] END clf__colsample_bytree=0.9013338863482813,
clf__learning_rate=0.09336145738752719, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=316,
clf__subsample=0.7181645681675637, preprocessor__text__max_features=6593,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.6s
[CV] END clf__colsample_bytree=0.7033276105969152,
clf__learning_rate=0.04523966100573274, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=430,
clf__subsample=0.7363952000628373, preprocessor__text__max_features=8643,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.9s
[CV] END clf__colsample_bytree=0.701557276011612,
clf__learning_rate=0.1490381163561804, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=390,
clf__subsample=0.815265100376013, preprocessor__text__max_features=3161,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.0s

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[CV] END clf__colsample_bytree=0.6429976878467903,
clf__learning_rate=0.08206397719488233, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=717,
clf__subsample=0.7196753052852535, preprocessor__text__max_features=6501,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 27.4s[CV] END clf__colsample_bytree=0.701557276011612,
clf__learning_rate=0.1490381163561804, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=390,
clf__subsample=0.815265100376013, preprocessor__text__max_features=3161,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.3s

[CV] END clf__colsample_bytree=0.7033276105969152,
clf__learning_rate=0.04523966100573274, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=430,
clf__subsample=0.7363952000628373, preprocessor__text__max_features=8643,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.3s
[CV] END clf__colsample_bytree=0.701557276011612,
clf__learning_rate=0.1490381163561804, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=390,
clf__subsample=0.815265100376013, preprocessor__text__max_features=3161,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.0s
[CV] END clf__colsample_bytree=0.9013338863482813,
clf__learning_rate=0.09336145738752719, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=316,
clf__subsample=0.7181645681675637, preprocessor__text__max_features=6593,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.1s
[CV] END clf__colsample_bytree=0.7749482252631221,
clf__learning_rate=0.08523513726072213, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=706,
clf__subsample=0.7545740582358894, preprocessor__text__max_features=5455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.9s
[CV] END clf__colsample_bytree=0.9013338863482813,
clf__learning_rate=0.09336145738752719, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=316,
clf__subsample=0.7181645681675637, preprocessor__text__max_features=6593,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 11.7s
[CV] END clf__colsample_bytree=0.9520722521708999,
clf__learning_rate=0.04004388778517579, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=444,
clf__subsample=0.755211874985126, preprocessor__text__max_features=6380,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.6s
[CV] END clf__colsample_bytree=0.7749482252631221,
clf__learning_rate=0.08523513726072213, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=706,
clf__subsample=0.7545740582358894, preprocessor__text__max_features=5455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.6s
[CV] END clf__colsample_bytree=0.9520722521708999,
clf__learning_rate=0.04004388778517579, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=444,
clf__subsample=0.755211874985126, preprocessor__text__max_features=6380,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.6s
[CV] END clf__colsample_bytree=0.7749482252631221,
clf__learning_rate=0.08523513726072213, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=706,
clf__subsample=0.7545740582358894, preprocessor__text__max_features=5455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 19.6s
[CV] END clf__colsample_bytree=0.9480993677409729,
clf__learning_rate=0.03980878954710653, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=682,
clf__subsample=0.8232850352039622, preprocessor__text__max_features=6781,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.1s
[CV] END clf__colsample_bytree=0.9520722521708999,
clf__learning_rate=0.04004388778517579, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=444,
clf__subsample=0.755211874985126, preprocessor__text__max_features=6380,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.7s
[CV] END clf__colsample_bytree=0.7431603624623118,
clf__learning_rate=0.10962075015967367, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=804,
clf__subsample=0.7334109471173111, preprocessor__text__max_features=4251,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 23.8s
[CV] END clf__colsample_bytree=0.7431603624623118,
clf__learning_rate=0.10962075015967367, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=804,
clf__subsample=0.7334109471173111, preprocessor__text__max_features=4251,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 23.7s
[CV] END clf__colsample_bytree=0.7431603624623118,
clf__learning_rate=0.10962075015967367, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=804,
clf__subsample=0.7334109471173111, preprocessor__text__max_features=4251,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 25.8s
[CV] END clf__colsample_bytree=0.9250818074986963,
clf__learning_rate=0.0376281523921603, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=527,
clf__subsample=0.9817304291468875, preprocessor__text__max_features=5179,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.4s
[CV] END clf__colsample_bytree=0.9250818074986963,
clf__learning_rate=0.0376281523921603, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=527,
clf__subsample=0.9817304291468875, preprocessor__text__max_features=5179,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.1s
[CV] END clf__colsample_bytree=0.7910659364071688,
clf__learning_rate=0.130282214004501, clf__max_depth=5, clf__min_child_weight=3,
clf__n_estimators=631, clf__subsample=0.9573821985351034,
preprocessor__text__max_features=6112, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=False; total time= 5.7s
[CV] END clf__colsample_bytree=0.6140714547501306,
clf__learning_rate=0.03741535630064367, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=562,
clf__subsample=0.7846023200799516, preprocessor__text__max_features=4268,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.7s
[CV] END clf__colsample_bytree=0.9480993677409729,
clf__learning_rate=0.03980878954710653, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=682,
clf__subsample=0.8232850352039622, preprocessor__text__max_features=6781,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.9s
[CV] END clf__colsample_bytree=0.7910659364071688,
clf__learning_rate=0.130282214004501, clf__max_depth=5, clf__min_child_weight=3,
clf__n_estimators=631, clf__subsample=0.9573821985351034,
preprocessor__text__max_features=6112, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=False; total time= 6.3s
[CV] END clf__colsample_bytree=0.9250818074986963,
clf__learning_rate=0.0376281523921603, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=527,
clf__subsample=0.9817304291468875, preprocessor__text__max_features=5179,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.2s
[CV] END clf__colsample_bytree=0.8815898387044789,
clf__learning_rate=0.10009141332747037, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=374,
clf__subsample=0.7421457908652147, preprocessor__text__max_features=7131,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.2s
[CV] END clf__colsample_bytree=0.6731665480261928,
clf__learning_rate=0.1109712154906188, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=655,
clf__subsample=0.7552694440485982, preprocessor__text__max_features=3772,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.9s
[CV] END clf__colsample_bytree=0.6731665480261928,
clf__learning_rate=0.1109712154906188, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=655,
clf__subsample=0.7552694440485982, preprocessor__text__max_features=3772,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.8s
[CV] END clf__colsample_bytree=0.9319170156504799,
clf__learning_rate=0.11289589747649749, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=560,
clf__subsample=0.8537019656453618, preprocessor__text__max_features=3744,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.7s
[CV] END clf__colsample_bytree=0.7910659364071688,
clf__learning_rate=0.130282214004501, clf__max_depth=5, clf__min_child_weight=3,
clf__n_estimators=631, clf__subsample=0.9573821985351034,
preprocessor__text__max_features=6112, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,

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preprocessor__text__sublinear_tf=False; total time= 9.0s
[CV] END clf__colsample_bytree=0.8815898387044789,
clf__learning_rate=0.10009141332747037, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=374,
clf__subsample=0.7421457908652147, preprocessor__text__max_features=7131,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.3s
[CV] END clf__colsample_bytree=0.8815898387044789,
clf__learning_rate=0.10009141332747037, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=374,
clf__subsample=0.7421457908652147, preprocessor__text__max_features=7131,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.3s
[CV] END clf__colsample_bytree=0.9480993677409729,
clf__learning_rate=0.03980878954710653, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=682,
clf__subsample=0.8232850352039622, preprocessor__text__max_features=6781,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 22.5s
[CV] END clf__colsample_bytree=0.9319170156504799,
clf__learning_rate=0.11289589747649749, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=560,
clf__subsample=0.8537019656453618, preprocessor__text__max_features=3744,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.1s
[CV] END clf__colsample_bytree=0.6140714547501306,
clf__learning_rate=0.03741535630064367, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=562,
clf__subsample=0.7846023200799516, preprocessor__text__max_features=4268,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 20.5s
[CV] END clf__colsample_bytree=0.9319170156504799,
clf__learning_rate=0.11289589747649749, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=560,
clf__subsample=0.8537019656453618, preprocessor__text__max_features=3744,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.3s
[CV] END clf__colsample_bytree=0.7251880746192745,
clf__learning_rate=0.037970115470938835, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=396,
clf__subsample=0.9731637564546954, preprocessor__text__max_features=8211,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.7s
[CV] END clf__colsample_bytree=0.7251880746192745,
clf__learning_rate=0.037970115470938835, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=396,
clf__subsample=0.9731637564546954, preprocessor__text__max_features=8211,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.7251880746192745,
clf__learning_rate=0.037970115470938835, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=396,
clf__subsample=0.9731637564546954, preprocessor__text__max_features=8211,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.4s
[CV] END clf__colsample_bytree=0.6731665480261928,
clf__learning_rate=0.1109712154906188, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=655,
clf__subsample=0.7552694440485982, preprocessor__text__max_features=3772,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.2s
[CV] END clf__colsample_bytree=0.998718382106903,
clf__learning_rate=0.1417492997435965, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=714,
clf__subsample=0.7067849414755416, preprocessor__text__max_features=8575,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.7s
[CV] END clf__colsample_bytree=0.6140714547501306,
clf__learning_rate=0.03741535630064367, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=562,
clf__subsample=0.7846023200799516, preprocessor__text__max_features=4268,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 25.4s
[CV] END clf__colsample_bytree=0.6151726014506242,
clf__learning_rate=0.1330751865322521, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=510,
clf__subsample=0.944613293399881, preprocessor__text__max_features=6579,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.7s
[CV] END clf__colsample_bytree=0.6151726014506242,
clf__learning_rate=0.1330751865322521, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=510,
clf__subsample=0.944613293399881, preprocessor__text__max_features=6579,
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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.3s
[CV] END clf__colsample_bytree=0.998718382106903,
clf__learning_rate=0.1417492997435965, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=714,
clf__subsample=0.7067849414755416, preprocessor__text__max_features=8575,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.5s
[CV] END clf__colsample_bytree=0.6151726014506242,
clf__learning_rate=0.1330751865322521, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=510,
clf__subsample=0.944613293399881, preprocessor__text__max_features=6579,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.9s
[CV] END clf__colsample_bytree=0.998718382106903,
clf__learning_rate=0.1417492997435965, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=714,
clf__subsample=0.7067849414755416, preprocessor__text__max_features=8575,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.3s
[CV] END clf__colsample_bytree=0.6934503949559465,
clf__learning_rate=0.07483610159418122, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=366,
clf__subsample=0.8728317598179686, preprocessor__text__max_features=4279,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.0s
[CV] END clf__colsample_bytree=0.6934503949559465,
clf__learning_rate=0.07483610159418122, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=366,
clf__subsample=0.8728317598179686, preprocessor__text__max_features=4279,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.4s
[CV] END clf__colsample_bytree=0.6934503949559465,
clf__learning_rate=0.07483610159418122, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=366,
clf__subsample=0.8728317598179686, preprocessor__text__max_features=4279,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.7s
[CV] END clf__colsample_bytree=0.6245928827135249,
clf__learning_rate=0.13753700301824212, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=472,

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clf__subsample=0.7514564611276393, preprocessor__text__max_features=6372,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.6s
[CV] END clf__colsample_bytree=0.6245928827135249,
clf__learning_rate=0.13753700301824212, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=472,
clf__subsample=0.7514564611276393, preprocessor__text__max_features=6372,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.6s
[CV] END clf__colsample_bytree=0.6245928827135249,
clf__learning_rate=0.13753700301824212, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=472,
clf__subsample=0.7514564611276393, preprocessor__text__max_features=6372,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.9s
[CV] END clf__colsample_bytree=0.6624877959697862,
clf__learning_rate=0.13102752972344728, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=726,
clf__subsample=0.9463484926410295, preprocessor__text__max_features=4921,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 24.8s
[CV] END clf__colsample_bytree=0.931786246076889,
clf__learning_rate=0.07645137675601418, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=344,
clf__subsample=0.9183791287998931, preprocessor__text__max_features=4909,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.7s
[CV] END clf__colsample_bytree=0.6624877959697862,
clf__learning_rate=0.13102752972344728, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=726,
clf__subsample=0.9463484926410295, preprocessor__text__max_features=4921,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 29.1s
[CV] END clf__colsample_bytree=0.6624877959697862,
clf__learning_rate=0.13102752972344728, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=726,
clf__subsample=0.9463484926410295, preprocessor__text__max_features=4921,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 30.2s
[CV] END clf__colsample_bytree=0.931786246076889,
clf__learning_rate=0.07645137675601418, clf__max_depth=7,

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clf__min_child_weight=4, clf__n_estimators=344,
clf__subsample=0.9183791287998931, preprocessor__text__max_features=4909,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.0s
[CV] END clf__colsample_bytree=0.8084840511515686,
clf__learning_rate=0.06579430755149265, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=488,
clf__subsample=0.8505296807377593, preprocessor__text__max_features=3600,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.7s
[CV] END clf__colsample_bytree=0.931786246076889,
clf__learning_rate=0.07645137675601418, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=344,
clf__subsample=0.9183791287998931, preprocessor__text__max_features=4909,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.9s
[CV] END clf__colsample_bytree=0.8084840511515686,
clf__learning_rate=0.06579430755149265, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=488,
clf__subsample=0.8505296807377593, preprocessor__text__max_features=3600,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.3s
[CV] END clf__colsample_bytree=0.8084840511515686,
clf__learning_rate=0.06579430755149265, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=488,
clf__subsample=0.8505296807377593, preprocessor__text__max_features=3600,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.3s
[CV] END clf__colsample_bytree=0.9893231581509888,
clf__learning_rate=0.14416483371279948, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=560,
clf__subsample=0.9532863693315687, preprocessor__text__max_features=6350,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.9893231581509888,
clf__learning_rate=0.14416483371279948, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=560,
clf__subsample=0.9532863693315687, preprocessor__text__max_features=6350,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.9s
[CV] END clf__colsample_bytree=0.9893231581509888,

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clf__learning_rate=0.14416483371279948, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=560,
clf__subsample=0.9532863693315687, preprocessor__text__max_features=6350,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.8s
[CV] END clf__colsample_bytree=0.9287983663774904,
clf__learning_rate=0.07577687390610298, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=818,
clf__subsample=0.7111105330538121, preprocessor__text__max_features=6780,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 33.6s
[CV] END clf__colsample_bytree=0.9287983663774904,
clf__learning_rate=0.07577687390610298, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=818,
clf__subsample=0.7111105330538121, preprocessor__text__max_features=6780,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 33.8s
[CV] END clf__colsample_bytree=0.9287983663774904,
clf__learning_rate=0.07577687390610298, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=818,
clf__subsample=0.7111105330538121, preprocessor__text__max_features=6780,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 36.6s
[CV] END clf__colsample_bytree=0.9939689487737591,
clf__learning_rate=0.05203176848142395, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=806,
clf__subsample=0.7230215211171503, preprocessor__text__max_features=5284,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 26.3s
[CV] END clf__colsample_bytree=0.9107336608339047,
clf__learning_rate=0.12004980744292217, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=679,
clf__subsample=0.7258859275891989, preprocessor__text__max_features=8392,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 29.1s
[CV] END clf__colsample_bytree=0.626994325318517,
clf__learning_rate=0.04260544019908073, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=440,
clf__subsample=0.9738812820541509, preprocessor__text__max_features=5799,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.7s

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[CV] END clf__colsample_bytree=0.626994325318517,
clf__learning_rate=0.04260544019908073, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=440,
clf__subsample=0.9738812820541509, preprocessor__text__max_features=5799,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.6s
[CV] END clf__colsample_bytree=0.9107336608339047,
clf__learning_rate=0.12004980744292217, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=679,
clf__subsample=0.7258859275891989, preprocessor__text__max_features=8392,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 30.0s
[CV] END clf__colsample_bytree=0.626994325318517,
clf__learning_rate=0.04260544019908073, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=440,
clf__subsample=0.9738812820541509, preprocessor__text__max_features=5799,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.8s
[CV] END clf__colsample_bytree=0.8736078414641612,
clf__learning_rate=0.05249804851004951, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=487,
clf__subsample=0.7166123049163605, preprocessor__text__max_features=4939,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 21.3s
[CV] END clf__colsample_bytree=0.9939689487737591,
clf__learning_rate=0.05203176848142395, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=806,
clf__subsample=0.7230215211171503, preprocessor__text__max_features=5284,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 32.8s
[CV] END clf__colsample_bytree=0.9609631806571347,
clf__learning_rate=0.0959039035766326, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=616,
clf__subsample=0.8117211565302602, preprocessor__text__max_features=6720,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.4s
[CV] END clf__colsample_bytree=0.9609631806571347,
clf__learning_rate=0.0959039035766326, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=616,
clf__subsample=0.8117211565302602, preprocessor__text__max_features=6720,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;

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total time= 9.1s
[CV] END clf__colsample_bytree=0.8736078414641612,
clf__learning_rate=0.05249804851004951, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=487,
clf__subsample=0.7166123049163605, preprocessor__text__max_features=4939,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 24.2s
[CV] END clf__colsample_bytree=0.9939689487737591,
clf__learning_rate=0.05203176848142395, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=806,
clf__subsample=0.7230215211171503, preprocessor__text__max_features=5284,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 39.2s
[CV] END clf__colsample_bytree=0.8736078414641612,
clf__learning_rate=0.05249804851004951, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=487,
clf__subsample=0.7166123049163605, preprocessor__text__max_features=4939,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 26.3s
[CV] END clf__colsample_bytree=0.9609631806571347,
clf__learning_rate=0.0959039035766326, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=616,
clf__subsample=0.8117211565302602, preprocessor__text__max_features=6720,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.0s
[CV] END clf__colsample_bytree=0.814580681930261,
clf__learning_rate=0.10464428367034229, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=544,
clf__subsample=0.7651720036812567, preprocessor__text__max_features=6452,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.1s
[CV] END clf__colsample_bytree=0.9107336608339047,
clf__learning_rate=0.12004980744292217, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=679,
clf__subsample=0.7258859275891989, preprocessor__text__max_features=8392,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 43.5s
[CV] END clf__colsample_bytree=0.814580681930261,
clf__learning_rate=0.10464428367034229, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=544,
clf__subsample=0.7651720036812567, preprocessor__text__max_features=6452,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.4s
[CV] END clf__colsample_bytree=0.9961531632360207,
clf__learning_rate=0.05466876576357611, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=751,
clf__subsample=0.707751252319131, preprocessor__text__max_features=4487,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.9s
[CV] END clf__colsample_bytree=0.9961531632360207,
clf__learning_rate=0.05466876576357611, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=751,
clf__subsample=0.707751252319131, preprocessor__text__max_features=4487,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.8955382875981566,
clf__learning_rate=0.1393402422834803, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=805,
clf__subsample=0.8656508199423192, preprocessor__text__max_features=7432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 21.3s
[CV] END clf__colsample_bytree=0.8955382875981566,
clf__learning_rate=0.1393402422834803, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=805,
clf__subsample=0.8656508199423192, preprocessor__text__max_features=7432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 22.2s
[CV] END clf__colsample_bytree=0.9012709188443826,
clf__learning_rate=0.12077906413464898, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=423,
clf__subsample=0.8517464590093082, preprocessor__text__max_features=4639,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.1s
[CV] END clf__colsample_bytree=0.7989767116567079,
clf__learning_rate=0.14614583541523862, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=430,
clf__subsample=0.9199042397042068, preprocessor__text__max_features=6528,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.3s
[CV] END clf__colsample_bytree=0.9012709188443826,
clf__learning_rate=0.12077906413464898, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=423,
clf__subsample=0.8517464590093082, preprocessor__text__max_features=4639,
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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.5s
[CV] END clf__colsample_bytree=0.9012709188443826,
clf__learning_rate=0.12077906413464898, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=423,
clf__subsample=0.8517464590093082, preprocessor__text__max_features=4639,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.1s
[CV] END clf__colsample_bytree=0.9961531632360207,
clf__learning_rate=0.05466876576357611, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=751,
clf__subsample=0.707751252319131, preprocessor__text__max_features=4487,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.7989767116567079,
clf__learning_rate=0.14614583541523862, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=430,
clf__subsample=0.9199042397042068, preprocessor__text__max_features=6528,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.6s
[CV] END clf__colsample_bytree=0.7989767116567079,
clf__learning_rate=0.14614583541523862, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=430,
clf__subsample=0.9199042397042068, preprocessor__text__max_features=6528,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 16.1s
[CV] END clf__colsample_bytree=0.8955382875981566,
clf__learning_rate=0.1393402422834803, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=805,
clf__subsample=0.8656508199423192, preprocessor__text__max_features=7432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 26.5s
[CV] END clf__colsample_bytree=0.8932029209444672,
clf__learning_rate=0.12513408603551568, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=704,
clf__subsample=0.8416705264257396, preprocessor__text__max_features=3839,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.1s
[CV] END clf__colsample_bytree=0.8932029209444672,
clf__learning_rate=0.12513408603551568, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=704,

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clf__subsample=0.8416705264257396, preprocessor__text__max_features=3839,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.3s
[CV] END clf__colsample_bytree=0.7457660486533804,
clf__learning_rate=0.06167153733143617, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=323,
clf__subsample=0.9001091553731719, preprocessor__text__max_features=4773,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.2s
[CV] END clf__colsample_bytree=0.8932029209444672,
clf__learning_rate=0.12513408603551568, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=704,
clf__subsample=0.8416705264257396, preprocessor__text__max_features=3839,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.6s
[CV] END clf__colsample_bytree=0.814580681930261,
clf__learning_rate=0.10464428367034229, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=544,
clf__subsample=0.7651720036812567, preprocessor__text__max_features=6452,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 23.3s
[CV] END clf__colsample_bytree=0.7831408200559021,
clf__learning_rate=0.06697955078893256, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=325,
clf__subsample=0.9332280014571366, preprocessor__text__max_features=6830,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.0s
[CV] END clf__colsample_bytree=0.7831408200559021,
clf__learning_rate=0.06697955078893256, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=325,
clf__subsample=0.9332280014571366, preprocessor__text__max_features=6830,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.3s
[CV] END clf__colsample_bytree=0.7457660486533804,
clf__learning_rate=0.06167153733143617, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=323,
clf__subsample=0.9001091553731719, preprocessor__text__max_features=4773,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.2s
[CV] END clf__colsample_bytree=0.7831408200559021,
clf__learning_rate=0.06697955078893256, clf__max_depth=4,

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clf__min_child_weight=4, clf__n_estimators=325,
clf__subsample=0.9332280014571366, preprocessor__text__max_features=6830,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.7457660486533804,
clf__learning_rate=0.06167153733143617, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=323,
clf__subsample=0.9001091553731719, preprocessor__text__max_features=4773,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.1s
[CV] END clf__colsample_bytree=0.7065545566879002,
clf__learning_rate=0.04004864168896931, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=811,
clf__subsample=0.8664595203010454, preprocessor__text__max_features=4624,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.7s
[CV] END clf__colsample_bytree=0.8389170552478886,
clf__learning_rate=0.14642947981015245, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=597,
clf__subsample=0.7213012533993051, preprocessor__text__max_features=3048,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.0s
[CV] END clf__colsample_bytree=0.8389170552478886,
clf__learning_rate=0.14642947981015245, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=597,
clf__subsample=0.7213012533993051, preprocessor__text__max_features=3048,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.7s
[CV] END clf__colsample_bytree=0.8389170552478886,
clf__learning_rate=0.14642947981015245, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=597,
clf__subsample=0.7213012533993051, preprocessor__text__max_features=3048,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.7640692882576376,
clf__learning_rate=0.05874981346411365, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=807,
clf__subsample=0.7125765650136575, preprocessor__text__max_features=6767,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.8s
[CV] END clf__colsample_bytree=0.7640692882576376,

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clf__learning_rate=0.05874981346411365, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=807,
clf__subsample=0.7125765650136575, preprocessor__text__max_features=6767,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.6s
[CV] END clf__colsample_bytree=0.7065545566879002,
clf__learning_rate=0.04004864168896931, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=811,
clf__subsample=0.8664595203010454, preprocessor__text__max_features=4624,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 23.9s
[CV] END clf__colsample_bytree=0.9833656557653696,
clf__learning_rate=0.13676501143836764, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=509,
clf__subsample=0.8308331740308899, preprocessor__text__max_features=7547,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 19.2s
[CV] END clf__colsample_bytree=0.8120068274280305,
clf__learning_rate=0.0563022579263715, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=787,
clf__subsample=0.9385116086571845, preprocessor__text__max_features=8731,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 16.3s
[CV] END clf__colsample_bytree=0.7065545566879002,
clf__learning_rate=0.04004864168896931, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=811,
clf__subsample=0.8664595203010454, preprocessor__text__max_features=4624,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 24.7s
[CV] END clf__colsample_bytree=0.9833656557653696,
clf__learning_rate=0.13676501143836764, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=509,
clf__subsample=0.8308331740308899, preprocessor__text__max_features=7547,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 21.4s
[CV] END clf__colsample_bytree=0.8120068274280305,
clf__learning_rate=0.0563022579263715, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=787,
clf__subsample=0.9385116086571845, preprocessor__text__max_features=8731,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.8s

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[CV] END clf__colsample_bytree=0.7881664068554033,
clf__learning_rate=0.03827368700472524, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=378,
clf__subsample=0.889263899980925, preprocessor__text__max_features=8432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.9590980360086832,
clf__learning_rate=0.058644567528612176, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=487,
clf__subsample=0.8363415379275482, preprocessor__text__max_features=5157,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.7s
[CV] END clf__colsample_bytree=0.6167411596720436,
clf__learning_rate=0.12777692263458879, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=692,
clf__subsample=0.8552540442948448, preprocessor__text__max_features=8807,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.5s
[CV] END clf__colsample_bytree=0.7881664068554033,
clf__learning_rate=0.03827368700472524, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=378,
clf__subsample=0.889263899980925, preprocessor__text__max_features=8432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.7640692882576376,
clf__learning_rate=0.05874981346411365, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=807,
clf__subsample=0.7125765650136575, preprocessor__text__max_features=6767,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.9s
[CV] END clf__colsample_bytree=0.8120068274280305,
clf__learning_rate=0.0563022579263715, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=787,
clf__subsample=0.9385116086571845, preprocessor__text__max_features=8731,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.6s
[CV] END clf__colsample_bytree=0.7881664068554033,
clf__learning_rate=0.03827368700472524, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=378,
clf__subsample=0.889263899980925, preprocessor__text__max_features=8432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

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total time= 11.8s
[CV] END clf__colsample_bytree=0.9590980360086832,
clf__learning_rate=0.058644567528612176, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=487,
clf__subsample=0.8363415379275482, preprocessor__text__max_features=5157,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 16.2s
[CV] END clf__colsample_bytree=0.9833656557653696,
clf__learning_rate=0.13676501143836764, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=509,
clf__subsample=0.8308331740308899, preprocessor__text__max_features=7547,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 27.6s
[CV] END clf__colsample_bytree=0.6167411596720436,
clf__learning_rate=0.12777692263458879, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=692,
clf__subsample=0.8552540442948448, preprocessor__text__max_features=8807,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.4s
[CV] END clf__colsample_bytree=0.6167411596720436,
clf__learning_rate=0.12777692263458879, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=692,
clf__subsample=0.8552540442948448, preprocessor__text__max_features=8807,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.8s
[CV] END clf__colsample_bytree=0.9590980360086832,
clf__learning_rate=0.058644567528612176, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=487,
clf__subsample=0.8363415379275482, preprocessor__text__max_features=5157,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 17.5s
[CV] END clf__colsample_bytree=0.959402622181106,
clf__learning_rate=0.09372414534219498, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=566,
clf__subsample=0.9595788913864829, preprocessor__text__max_features=7217,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.8s
[CV] END clf__colsample_bytree=0.959402622181106,
clf__learning_rate=0.09372414534219498, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=566,
clf__subsample=0.9595788913864829, preprocessor__text__max_features=7217,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.3s
[CV] END clf__colsample_bytree=0.959402622181106,
clf__learning_rate=0.09372414534219498, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=566,
clf__subsample=0.9595788913864829, preprocessor__text__max_features=7217,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.6s
[CV] END clf__colsample_bytree=0.8924098345166507,
clf__learning_rate=0.05728027967776575, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=828,
clf__subsample=0.9040352649580636, preprocessor__text__max_features=5018,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.6s
[CV] END clf__colsample_bytree=0.6659845495456479,
clf__learning_rate=0.11131328108837593, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=665,
clf__subsample=0.7553775275811406, preprocessor__text__max_features=7845,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.4s
[CV] END clf__colsample_bytree=0.6659845495456479,
clf__learning_rate=0.11131328108837593, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=665,
clf__subsample=0.7553775275811406, preprocessor__text__max_features=7845,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.9s
[CV] END clf__colsample_bytree=0.6659845495456479,
clf__learning_rate=0.11131328108837593, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=665,
clf__subsample=0.7553775275811406, preprocessor__text__max_features=7845,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.4s
[CV] END clf__colsample_bytree=0.9293423196116277,
clf__learning_rate=0.05832119936029227, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=521,
clf__subsample=0.8829948592162854, preprocessor__text__max_features=5094,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.7s
[CV] END clf__colsample_bytree=0.766653539022408,
clf__learning_rate=0.14797076412800864, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=785,
clf__subsample=0.9165661690440384, preprocessor__text__max_features=3487,
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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.0s
[CV] END clf__colsample_bytree=0.8025451922712692,
clf__learning_rate=0.09814924440457906, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=647,
clf__subsample=0.8128067058955311, preprocessor__text__max_features=5116,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.5s
[CV] END clf__colsample_bytree=0.766653539022408,
clf__learning_rate=0.14797076412800864, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=785,
clf__subsample=0.9165661690440384, preprocessor__text__max_features=3487,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.9s
[CV] END clf__colsample_bytree=0.7761627610040396,
clf__learning_rate=0.07003873716668155, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=387,
clf__subsample=0.9598440330466412, preprocessor__text__max_features=7755,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.8924098345166507,
clf__learning_rate=0.05728027967776575, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=828,
clf__subsample=0.9040352649580636, preprocessor__text__max_features=5018,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 21.4s
[CV] END clf__colsample_bytree=0.9293423196116277,
clf__learning_rate=0.05832119936029227, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=521,
clf__subsample=0.8829948592162854, preprocessor__text__max_features=5094,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.8025451922712692,
clf__learning_rate=0.09814924440457906, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=647,
clf__subsample=0.8128067058955311, preprocessor__text__max_features=5116,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.9s
[CV] END clf__colsample_bytree=0.8924098345166507,
clf__learning_rate=0.05728027967776575, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=828,

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clf__subsample=0.9040352649580636, preprocessor__text__max_features=5018,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 21.6s
[CV] END clf__colsample_bytree=0.6764196409888988,
clf__learning_rate=0.11106126815441826, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=333,
clf__subsample=0.9894123587797974, preprocessor__text__max_features=3532,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.2s
[CV] END clf__colsample_bytree=0.8025451922712692,
clf__learning_rate=0.09814924440457906, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=647,
clf__subsample=0.8128067058955311, preprocessor__text__max_features=5116,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.4s
[CV] END clf__colsample_bytree=0.9293423196116277,
clf__learning_rate=0.05832119936029227, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=521,
clf__subsample=0.8829948592162854, preprocessor__text__max_features=5094,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.5s
[CV] END clf__colsample_bytree=0.6764196409888988,
clf__learning_rate=0.11106126815441826, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=333,
clf__subsample=0.9894123587797974, preprocessor__text__max_features=3532,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.9s
[CV] END clf__colsample_bytree=0.6764196409888988,
clf__learning_rate=0.11106126815441826, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=333,
clf__subsample=0.9894123587797974, preprocessor__text__max_features=3532,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.4s
[CV] END clf__colsample_bytree=0.7670325168804518,
clf__learning_rate=0.05868528481948818, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=430,
clf__subsample=0.7996990639523867, preprocessor__text__max_features=5073,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.4s
[CV] END clf__colsample_bytree=0.7761627610040396,
clf__learning_rate=0.07003873716668155, clf__max_depth=5,

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clf__min_child_weight=5, clf__n_estimators=387,
clf__subsample=0.9598440330466412, preprocessor__text__max_features=7755,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.5s
[CV] END clf__colsample_bytree=0.7781253493059523,
clf__learning_rate=0.10429571378904531, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=379,
clf__subsample=0.7861680376051876, preprocessor__text__max_features=6410,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.5s
[CV] END clf__colsample_bytree=0.7761627610040396,
clf__learning_rate=0.07003873716668155, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=387,
clf__subsample=0.9598440330466412, preprocessor__text__max_features=7755,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.3s
[CV] END clf__colsample_bytree=0.9926267110176195,
clf__learning_rate=0.04937704164568221, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=577,
clf__subsample=0.8206155773719657, preprocessor__text__max_features=8612,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.766653539022408,
clf__learning_rate=0.14797076412800864, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=785,
clf__subsample=0.9165661690440384, preprocessor__text__max_features=3487,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 20.5s
[CV] END clf__colsample_bytree=0.7507167472507517,
clf__learning_rate=0.09534217579616142, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=373,
clf__subsample=0.8150337305895157, preprocessor__text__max_features=7007,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.3s
[CV] END clf__colsample_bytree=0.7670325168804518,
clf__learning_rate=0.05868528481948818, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=430,
clf__subsample=0.7996990639523867, preprocessor__text__max_features=5073,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.7781253493059523,

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clf__learning_rate=0.10429571378904531, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=379,
clf__subsample=0.7861680376051876, preprocessor__text__max_features=6410,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.9s
[CV] END clf__colsample_bytree=0.7670325168804518,
clf__learning_rate=0.05868528481948818, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=430,
clf__subsample=0.7996990639523867, preprocessor__text__max_features=5073,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.1s
[CV] END clf__colsample_bytree=0.9926267110176195,
clf__learning_rate=0.04937704164568221, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=577,
clf__subsample=0.8206155773719657, preprocessor__text__max_features=8612,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.9s
[CV] END clf__colsample_bytree=0.7767995981604848,
clf__learning_rate=0.09502985362147125, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=335,
clf__subsample=0.9518202075128066, preprocessor__text__max_features=5396,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.9s
[CV] END clf__colsample_bytree=0.7781253493059523,
clf__learning_rate=0.10429571378904531, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=379,
clf__subsample=0.7861680376051876, preprocessor__text__max_features=6410,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.8s
[CV] END clf__colsample_bytree=0.7507167472507517,
clf__learning_rate=0.09534217579616142, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=373,
clf__subsample=0.8150337305895157, preprocessor__text__max_features=7007,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.4s
[CV] END clf__colsample_bytree=0.6865579512195066,
clf__learning_rate=0.10579702914393652, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=451,
clf__subsample=0.8621515625141495, preprocessor__text__max_features=4864,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.1s

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[CV] END clf__colsample_bytree=0.7397615200889754,
clf__learning_rate=0.1255059279077663, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=583,
clf__subsample=0.7381578024541395, preprocessor__text__max_features=8399,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.6s
[CV] END clf__colsample_bytree=0.7767995981604848,
clf__learning_rate=0.09502985362147125, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=335,
clf__subsample=0.9518202075128066, preprocessor__text__max_features=5396,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.9s
[CV] END clf__colsample_bytree=0.7634928250419519,
clf__learning_rate=0.10005026605756753, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=349,
clf__subsample=0.8421696216363121, preprocessor__text__max_features=6521,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.9s
[CV] END clf__colsample_bytree=0.6865579512195066,
clf__learning_rate=0.10579702914393652, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=451,
clf__subsample=0.8621515625141495, preprocessor__text__max_features=4864,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.0s
[CV] END clf__colsample_bytree=0.7507167472507517,
clf__learning_rate=0.09534217579616142, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=373,
clf__subsample=0.8150337305895157, preprocessor__text__max_features=7007,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.1s
[CV] END clf__colsample_bytree=0.6865579512195066,
clf__learning_rate=0.10579702914393652, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=451,
clf__subsample=0.8621515625141495, preprocessor__text__max_features=4864,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.1s
[CV] END clf__colsample_bytree=0.7634928250419519,
clf__learning_rate=0.10005026605756753, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=349,
clf__subsample=0.8421696216363121, preprocessor__text__max_features=6521,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;

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total time= 7.2s
[CV] END clf__colsample_bytree=0.9926267110176195,
clf__learning_rate=0.04937704164568221, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=577,
clf__subsample=0.8206155773719657, preprocessor__text__max_features=8612,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.1s
[CV] END clf__colsample_bytree=0.7767995981604848,
clf__learning_rate=0.09502985362147125, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=335,
clf__subsample=0.9518202075128066, preprocessor__text__max_features=5396,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.6s
[CV] END clf__colsample_bytree=0.7397615200889754,
clf__learning_rate=0.1255059279077663, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=583,
clf__subsample=0.7381578024541395, preprocessor__text__max_features=8399,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.2s
[CV] END clf__colsample_bytree=0.6002900703140287,
clf__learning_rate=0.09503465662993023, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=894,
clf__subsample=0.9343450941753533, preprocessor__text__max_features=3679,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.6007150255033533,
clf__learning_rate=0.08059551771370316, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=538,
clf__subsample=0.7825580637206255, preprocessor__text__max_features=6054,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.9s
[CV] END clf__colsample_bytree=0.6007150255033533,
clf__learning_rate=0.08059551771370316, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=538,
clf__subsample=0.7825580637206255, preprocessor__text__max_features=6054,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.1s
[CV] END clf__colsample_bytree=0.9399270794308521,
clf__learning_rate=0.08317362308492897, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=612,
clf__subsample=0.9257550778941877, preprocessor__text__max_features=6411,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.4s
[CV] END clf__colsample_bytree=0.6002900703140287,
clf__learning_rate=0.09503465662993023, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=894,
clf__subsample=0.9343450941753533, preprocessor__text__max_features=3679,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.9s
[CV] END clf__colsample_bytree=0.7634928250419519,
clf__learning_rate=0.10005026605756753, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=349,
clf__subsample=0.8421696216363121, preprocessor__text__max_features=6521,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.3s
[CV] END clf__colsample_bytree=0.8185958067366848,
clf__learning_rate=0.14621610929149154, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=557,
clf__subsample=0.8648677202526444, preprocessor__text__max_features=8455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.7s
[CV] END clf__colsample_bytree=0.6007150255033533,
clf__learning_rate=0.08059551771370316, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=538,
clf__subsample=0.7825580637206255, preprocessor__text__max_features=6054,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.4s
[CV] END clf__colsample_bytree=0.656144975331474,
clf__learning_rate=0.094924595422417, clf__max_depth=4, clf__min_child_weight=2,
clf__n_estimators=471, clf__subsample=0.9085855842707204,
preprocessor__text__max_features=3116, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 2.2s
[CV] END clf__colsample_bytree=0.9492393175587733,
clf__learning_rate=0.09608125209780825, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=823,
clf__subsample=0.8619319661496228, preprocessor__text__max_features=4524,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.7s
[CV] END clf__colsample_bytree=0.7397615200889754,
clf__learning_rate=0.1255059279077663, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=583,
clf__subsample=0.7381578024541395, preprocessor__text__max_features=8399,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.0s
[CV] END clf__colsample_bytree=0.9492393175587733,
clf__learning_rate=0.09608125209780825, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=823,
clf__subsample=0.8619319661496228, preprocessor__text__max_features=4524,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.9s
[CV] END clf__colsample_bytree=0.6002900703140287,
clf__learning_rate=0.09503465662993023, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=894,
clf__subsample=0.9343450941753533, preprocessor__text__max_features=3679,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.6s
[CV] END clf__colsample_bytree=0.656144975331474,
clf__learning_rate=0.094924595422417, clf__max_depth=4, clf__min_child_weight=2,
clf__n_estimators=471, clf__subsample=0.9085855842707204,
preprocessor__text__max_features=3116, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 3.8s
[CV] END clf__colsample_bytree=0.9492393175587733,
clf__learning_rate=0.09608125209780825, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=823,
clf__subsample=0.8619319661496228, preprocessor__text__max_features=4524,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.0s
[CV] END clf__colsample_bytree=0.656144975331474,
clf__learning_rate=0.094924595422417, clf__max_depth=4, clf__min_child_weight=2,
clf__n_estimators=471, clf__subsample=0.9085855842707204,
preprocessor__text__max_features=3116, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 4.9s
[CV] END clf__colsample_bytree=0.8185958067366848,
clf__learning_rate=0.14621610929149154, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=557,
clf__subsample=0.8648677202526444, preprocessor__text__max_features=8455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.9s
[CV] END clf__colsample_bytree=0.6676306419153264,
clf__learning_rate=0.04575236625368323, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=551,
clf__subsample=0.8295471021924963, preprocessor__text__max_features=4089,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;

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total time= 8.8s
[CV] END clf__colsample_bytree=0.7429701854089302,
clf__learning_rate=0.06376414846494721, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=356,
clf__subsample=0.883226975471888, preprocessor__text__max_features=8705,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.6s
[CV] END clf__colsample_bytree=0.7429701854089302,
clf__learning_rate=0.06376414846494721, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=356,
clf__subsample=0.883226975471888, preprocessor__text__max_features=8705,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.6s
[CV] END clf__colsample_bytree=0.7429701854089302,
clf__learning_rate=0.06376414846494721, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=356,
clf__subsample=0.883226975471888, preprocessor__text__max_features=8705,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.9399270794308521,
clf__learning_rate=0.08317362308492897, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=612,
clf__subsample=0.9257550778941877, preprocessor__text__max_features=6411,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 20.8s
[CV] END clf__colsample_bytree=0.8185958067366848,
clf__learning_rate=0.14621610929149154, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=557,
clf__subsample=0.8648677202526444, preprocessor__text__max_features=8455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.4s
[CV] END clf__colsample_bytree=0.6676306419153264,
clf__learning_rate=0.04575236625368323, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=551,
clf__subsample=0.8295471021924963, preprocessor__text__max_features=4089,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.9s[CV] END clf__colsample_bytree=0.91072841145588,
clf__learning_rate=0.10453235956184229, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=625,
clf__subsample=0.9207000884681807, preprocessor__text__max_features=4919,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

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total time= 5.6s

[CV] END clf__colsample_bytree=0.9399270794308521,
clf__learning_rate=0.08317362308492897, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=612,
clf__subsample=0.9257550778941877, preprocessor__text__max_features=6411,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 24.5s

[CV] END clf__colsample_bytree=0.9149006193680563,
clf__learning_rate=0.12703069931490768, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=555,
clf__subsample=0.8154078491814994, preprocessor__text__max_features=3144,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.2s

[CV] END clf__colsample_bytree=0.9149006193680563,
clf__learning_rate=0.12703069931490768, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=555,
clf__subsample=0.8154078491814994, preprocessor__text__max_features=3144,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.6s

[CV] END clf__colsample_bytree=0.91072841145588,
clf__learning_rate=0.10453235956184229, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=625,
clf__subsample=0.9207000884681807, preprocessor__text__max_features=4919,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.9s

[CV] END clf__colsample_bytree=0.9149006193680563,
clf__learning_rate=0.12703069931490768, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=555,
clf__subsample=0.8154078491814994, preprocessor__text__max_features=3144,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.5s

[CV] END clf__colsample_bytree=0.9833880632832614,
clf__learning_rate=0.05742144944703953, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=440,
clf__subsample=0.7600901664068134, preprocessor__text__max_features=8143,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.0s

[CV] END clf__colsample_bytree=0.6265041202511029,
clf__learning_rate=0.05863442689455857, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=329,
clf__subsample=0.8548158125829468, preprocessor__text__max_features=4441,

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preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.6s
[CV] END clf__colsample_bytree=0.91072841145588,
clf__learning_rate=0.10453235956184229, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=625,
clf__subsample=0.9207000884681807, preprocessor__text__max_features=4919,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.9s
[CV] END clf__colsample_bytree=0.6265041202511029,
clf__learning_rate=0.05863442689455857, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=329,
clf__subsample=0.8548158125829468, preprocessor__text__max_features=4441,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.0s
[CV] END clf__colsample_bytree=0.9833880632832614,
clf__learning_rate=0.05742144944703953, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=440,
clf__subsample=0.7600901664068134, preprocessor__text__max_features=8143,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.2s
[CV] END clf__colsample_bytree=0.6676306419153264,
clf__learning_rate=0.04575236625368323, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=551,
clf__subsample=0.8295471021924963, preprocessor__text__max_features=4089,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.2s
[CV] END clf__colsample_bytree=0.8085512308137258,
clf__learning_rate=0.12227154172369514, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=608,
clf__subsample=0.8126097784456235, preprocessor__text__max_features=4563,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.6s
[CV] END clf__colsample_bytree=0.8085512308137258,
clf__learning_rate=0.12227154172369514, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=608,
clf__subsample=0.8126097784456235, preprocessor__text__max_features=4563,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.2s
[CV] END clf__colsample_bytree=0.6265041202511029,
clf__learning_rate=0.05863442689455857, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=329,
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clf__subsample=0.8548158125829468, preprocessor__text__max_features=4441,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.0s
[CV] END clf__colsample_bytree=0.6584586288829625,
clf__learning_rate=0.0939224753699791, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=654,
clf__subsample=0.9816515638085906, preprocessor__text__max_features=4210,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.4s
[CV] END clf__colsample_bytree=0.6707631838497017,
clf__learning_rate=0.11803518100624803, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=633,
clf__subsample=0.7666199044975677, preprocessor__text__max_features=4817,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.5s
[CV] END clf__colsample_bytree=0.6584586288829625,
clf__learning_rate=0.0939224753699791, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=654,
clf__subsample=0.9816515638085906, preprocessor__text__max_features=4210,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.3s
[CV] END clf__colsample_bytree=0.6584586288829625,
clf__learning_rate=0.0939224753699791, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=654,
clf__subsample=0.9816515638085906, preprocessor__text__max_features=4210,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.9s
[CV] END clf__colsample_bytree=0.9833880632832614,
clf__learning_rate=0.05742144944703953, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=440,
clf__subsample=0.7600901664068134, preprocessor__text__max_features=8143,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.7s
[CV] END clf__colsample_bytree=0.993992812677389,
clf__learning_rate=0.04813805682417984, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=329,
clf__subsample=0.7835609719753611, preprocessor__text__max_features=5378,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.2s
[CV] END clf__colsample_bytree=0.6707631838497017,
clf__learning_rate=0.11803518100624803, clf__max_depth=3,

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clf__min_child_weight=3, clf__n_estimators=633,
clf__subsample=0.7666199044975677, preprocessor__text__max_features=4817,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.4s
[CV] END clf__colsample_bytree=0.6707631838497017,
clf__learning_rate=0.11803518100624803, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=633,
clf__subsample=0.7666199044975677, preprocessor__text__max_features=4817,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.6s
[CV] END clf__colsample_bytree=0.993992812677389,
clf__learning_rate=0.04813805682417984, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=329,
clf__subsample=0.7835609719753611, preprocessor__text__max_features=5378,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.993992812677389,
clf__learning_rate=0.04813805682417984, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=329,
clf__subsample=0.7835609719753611, preprocessor__text__max_features=5378,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.9s
[CV] END clf__colsample_bytree=0.8085512308137258,
clf__learning_rate=0.12227154172369514, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=608,
clf__subsample=0.8126097784456235, preprocessor__text__max_features=4563,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.8s
[CV] END clf__colsample_bytree=0.7713363095512231,
clf__learning_rate=0.11295684629457485, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=433,
clf__subsample=0.7972592131455867, preprocessor__text__max_features=8748,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.4s
[CV] END clf__colsample_bytree=0.7785535088580537,
clf__learning_rate=0.09199903821346628, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=540,
clf__subsample=0.7410792666114505, preprocessor__text__max_features=6350,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.8s
[CV] END clf__colsample_bytree=0.7713363095512231,

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clf__learning_rate=0.11295684629457485, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=433,
clf__subsample=0.7972592131455867, preprocessor__text__max_features=8748,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.9s
[CV] END clf__colsample_bytree=0.7785535088580537,
clf__learning_rate=0.09199903821346628, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=540,
clf__subsample=0.7410792666114505, preprocessor__text__max_features=6350,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.2s
[CV] END clf__colsample_bytree=0.7785535088580537,
clf__learning_rate=0.09199903821346628, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=540,
clf__subsample=0.7410792666114505, preprocessor__text__max_features=6350,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.2s
[CV] END clf__colsample_bytree=0.6538425420481602,
clf__learning_rate=0.11180265073338957, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=538,
clf__subsample=0.9787410582999558, preprocessor__text__max_features=7925,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.8s
[CV] END clf__colsample_bytree=0.6538425420481602,
clf__learning_rate=0.11180265073338957, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=538,
clf__subsample=0.9787410582999558, preprocessor__text__max_features=7925,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.4s
[CV] END clf__colsample_bytree=0.6538425420481602,
clf__learning_rate=0.11180265073338957, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=538,
clf__subsample=0.9787410582999558, preprocessor__text__max_features=7925,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.0s
[CV] END clf__colsample_bytree=0.6811258710147362,
clf__learning_rate=0.10274092385614231, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=836,
clf__subsample=0.7768254380318691, preprocessor__text__max_features=3319,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.2s

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[CV] END clf__colsample_bytree=0.7713363095512231,
clf__learning_rate=0.11295684629457485, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=433,
clf__subsample=0.7972592131455867, preprocessor__text__max_features=8748,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 17.2s
[CV] END clf__colsample_bytree=0.7931051595701964,
clf__learning_rate=0.05737133877948694, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=871,
clf__subsample=0.8329770275305667, preprocessor__text__max_features=3187,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.1s
[CV] END clf__colsample_bytree=0.9719405218014312,
clf__learning_rate=0.06153260590102372, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=767,
clf__subsample=0.9589667137154917, preprocessor__text__max_features=8256,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.6s
[CV] END clf__colsample_bytree=0.6811258710147362,
clf__learning_rate=0.10274092385614231, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=836,
clf__subsample=0.7768254380318691, preprocessor__text__max_features=3319,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.5s
[CV] END clf__colsample_bytree=0.7931051595701964,
clf__learning_rate=0.05737133877948694, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=871,
clf__subsample=0.8329770275305667, preprocessor__text__max_features=3187,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.4s
[CV] END clf__colsample_bytree=0.6811258710147362,
clf__learning_rate=0.10274092385614231, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=836,
clf__subsample=0.7768254380318691, preprocessor__text__max_features=3319,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.8s
[CV] END clf__colsample_bytree=0.7931051595701964,
clf__learning_rate=0.05737133877948694, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=871,
clf__subsample=0.8329770275305667, preprocessor__text__max_features=3187,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

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total time= 20.5s
[CV] END clf__colsample_bytree=0.7632843446251527,
clf__learning_rate=0.04374884991263694, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=597,
clf__subsample=0.9210868267353758, preprocessor__text__max_features=7580,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.8s
[CV] END clf__colsample_bytree=0.7632843446251527,
clf__learning_rate=0.04374884991263694, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=597,
clf__subsample=0.9210868267353758, preprocessor__text__max_features=7580,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.3s
[CV] END clf__colsample_bytree=0.9719405218014312,
clf__learning_rate=0.06153260590102372, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=767,
clf__subsample=0.9589667137154917, preprocessor__text__max_features=8256,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.1s
[CV] END clf__colsample_bytree=0.7632843446251527,
clf__learning_rate=0.04374884991263694, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=597,
clf__subsample=0.9210868267353758, preprocessor__text__max_features=7580,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.4s
[CV] END clf__colsample_bytree=0.8224243010667187,
clf__learning_rate=0.04723204352539336, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=602,
clf__subsample=0.9535927532286614, preprocessor__text__max_features=3894,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.1s
[CV] END clf__colsample_bytree=0.8224243010667187,
clf__learning_rate=0.04723204352539336, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=602,
clf__subsample=0.9535927532286614, preprocessor__text__max_features=3894,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 18.7s
[CV] END clf__colsample_bytree=0.9826074858317237,
clf__learning_rate=0.07751574798438948, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=710,
clf__subsample=0.9157752253810547, preprocessor__text__max_features=5416,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 23.8s
[CV] END clf__colsample_bytree=0.8224243010667187,
clf__learning_rate=0.04723204352539336, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=602,
clf__subsample=0.9535927532286614, preprocessor__text__max_features=3894,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 19.4s
[CV] END clf__colsample_bytree=0.9826074858317237,
clf__learning_rate=0.07751574798438948, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=710,
clf__subsample=0.9157752253810547, preprocessor__text__max_features=5416,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 27.8s
[CV] END clf__colsample_bytree=0.8521717093298902,
clf__learning_rate=0.12003158761079039, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=500,
clf__subsample=0.7559568873992895, preprocessor__text__max_features=5938,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.1s
[CV] END clf__colsample_bytree=0.9393258222952139,
clf__learning_rate=0.0491494075977035, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=577,
clf__subsample=0.8719017167811238, preprocessor__text__max_features=3963,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.7s
[CV] END clf__colsample_bytree=0.9719405218014312,
clf__learning_rate=0.06153260590102372, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=767,
clf__subsample=0.9589667137154917, preprocessor__text__max_features=8256,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 28.3s
[CV] END clf__colsample_bytree=0.8521717093298902,
clf__learning_rate=0.12003158761079039, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=500,
clf__subsample=0.7559568873992895, preprocessor__text__max_features=5938,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.5s
[CV] END clf__colsample_bytree=0.6945257284290065,
clf__learning_rate=0.12470510590323201, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=748,
clf__subsample=0.8774938652302109, preprocessor__text__max_features=3082,
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preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 18.2s
[CV] END clf__colsample_bytree=0.8521717093298902,
clf__learning_rate=0.12003158761079039, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=500,
clf__subsample=0.7559568873992895, preprocessor__text__max_features=5938,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.4s
[CV] END clf__colsample_bytree=0.6945257284290065,
clf__learning_rate=0.12470510590323201, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=748,
clf__subsample=0.8774938652302109, preprocessor__text__max_features=3082,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 20.3s
[CV] END clf__colsample_bytree=0.9826074858317237,
clf__learning_rate=0.07751574798438948, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=710,
clf__subsample=0.9157752253810547, preprocessor__text__max_features=5416,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 33.0s
[CV] END clf__colsample_bytree=0.9393258222952139,
clf__learning_rate=0.0491494075977035, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=577,
clf__subsample=0.8719017167811238, preprocessor__text__max_features=3963,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.9s
[CV] END clf__colsample_bytree=0.8016870417124834,
clf__learning_rate=0.04744095218777478, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=364,
clf__subsample=0.835805878324167, preprocessor__text__max_features=7540,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 17.8s
[CV] END clf__colsample_bytree=0.8636878956076663,
clf__learning_rate=0.08360940957954653, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=428,
clf__subsample=0.9161893090847669, preprocessor__text__max_features=3175,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.2s
[CV] END clf__colsample_bytree=0.8016870417124834,
clf__learning_rate=0.04744095218777478, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=364,

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clf__subsample=0.835805878324167, preprocessor__text__max_features=7540,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 17.2s
[CV] END clf__colsample_bytree=0.9393258222952139,
clf__learning_rate=0.0491494075977035, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=577,
clf__subsample=0.8719017167811238, preprocessor__text__max_features=3963,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 15.2s
[CV] END clf__colsample_bytree=0.8636878956076663,
clf__learning_rate=0.08360940957954653, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=428,
clf__subsample=0.9161893090847669, preprocessor__text__max_features=3175,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.7s
[CV] END clf__colsample_bytree=0.6945257284290065,
clf__learning_rate=0.12470510590323201, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=748,
clf__subsample=0.8774938652302109, preprocessor__text__max_features=3082,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 24.1s
[CV] END clf__colsample_bytree=0.772581926325678,
clf__learning_rate=0.13229799538601822, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=447,
clf__subsample=0.744226141243046, preprocessor__text__max_features=8684,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.8636878956076663,
clf__learning_rate=0.08360940957954653, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=428,
clf__subsample=0.9161893090847669, preprocessor__text__max_features=3175,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.3s
[CV] END clf__colsample_bytree=0.7241202643013946,
clf__learning_rate=0.13175289220457398, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=791,
clf__subsample=0.7121174707108379, preprocessor__text__max_features=6247,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.0s
[CV] END clf__colsample_bytree=0.8016870417124834,
clf__learning_rate=0.04744095218777478, clf__max_depth=8,

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clf__min_child_weight=4, clf__n_estimators=364,
clf__subsample=0.835805878324167, preprocessor__text__max_features=7540,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 19.0s
[CV] END clf__colsample_bytree=0.7241202643013946,
clf__learning_rate=0.13175289220457398, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=791,
clf__subsample=0.7121174707108379, preprocessor__text__max_features=6247,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.1s
[CV] END clf__colsample_bytree=0.772581926325678,
clf__learning_rate=0.13229799538601822, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=447,
clf__subsample=0.744226141243046, preprocessor__text__max_features=8684,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.0s
[CV] END clf__colsample_bytree=0.7241202643013946,
clf__learning_rate=0.13175289220457398, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=791,
clf__subsample=0.7121174707108379, preprocessor__text__max_features=6247,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.0s
[CV] END clf__colsample_bytree=0.772581926325678,
clf__learning_rate=0.13229799538601822, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=447,
clf__subsample=0.744226141243046, preprocessor__text__max_features=8684,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.4s
[CV] END clf__colsample_bytree=0.8034467720158842,
clf__learning_rate=0.03998661733214531, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=674,
clf__subsample=0.7888911932041182, preprocessor__text__max_features=5262,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.8s
[CV] END clf__colsample_bytree=0.892515481319571,
clf__learning_rate=0.059919974828722106, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=536,
clf__subsample=0.7440789536384641, preprocessor__text__max_features=5778,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.7s
[CV] END clf__colsample_bytree=0.8034467720158842,

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clf__learning_rate=0.03998661733214531, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=674,
clf__subsample=0.7888911932041182, preprocessor__text__max_features=5262,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.0s
[CV] END clf__colsample_bytree=0.9692552623135986,
clf__learning_rate=0.06952771416026901, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=836,
clf__subsample=0.8752580634848585, preprocessor__text__max_features=5542,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 19.0s
[CV] END clf__colsample_bytree=0.8034467720158842,
clf__learning_rate=0.03998661733214531, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=674,
clf__subsample=0.7888911932041182, preprocessor__text__max_features=5262,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.4s
[CV] END clf__colsample_bytree=0.9604523784010138,
clf__learning_rate=0.1161000330288105, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=855,
clf__subsample=0.9937132242465503, preprocessor__text__max_features=6376,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.8s
[CV] END clf__colsample_bytree=0.9604523784010138,
clf__learning_rate=0.1161000330288105, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=855,
clf__subsample=0.9937132242465503, preprocessor__text__max_features=6376,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.9s
[CV] END clf__colsample_bytree=0.9660172834042664,
clf__learning_rate=0.10676082774120732, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=716,
clf__subsample=0.708641125002899, preprocessor__text__max_features=8135,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.1s
[CV] END clf__colsample_bytree=0.9660172834042664,
clf__learning_rate=0.10676082774120732, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=716,
clf__subsample=0.708641125002899, preprocessor__text__max_features=8135,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.0s

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[CV] END clf__colsample_bytree=0.9660172834042664,
clf__learning_rate=0.10676082774120732, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=716,
clf__subsample=0.708641125002899, preprocessor__text__max_features=8135,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.8s
[CV] END clf__colsample_bytree=0.9604523784010138,
clf__learning_rate=0.1161000330288105, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=855,
clf__subsample=0.9937132242465503, preprocessor__text__max_features=6376,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.9692552623135986,
clf__learning_rate=0.06952771416026901, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=836,
clf__subsample=0.8752580634848585, preprocessor__text__max_features=5542,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 21.3s
[CV] END clf__colsample_bytree=0.9405719872476641,
clf__learning_rate=0.06757259887228993, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=780,
clf__subsample=0.7318096389561948, preprocessor__text__max_features=8256,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.1s
[CV] END clf__colsample_bytree=0.9405719872476641,
clf__learning_rate=0.06757259887228993, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=780,
clf__subsample=0.7318096389561948, preprocessor__text__max_features=8256,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.3s
[CV] END clf__colsample_bytree=0.6145647871897666,
clf__learning_rate=0.13249392770353033, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=481,
clf__subsample=0.8574093578204045, preprocessor__text__max_features=4169,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.4s
[CV] END clf__colsample_bytree=0.8011439630489768,
clf__learning_rate=0.03791523301305834, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=403,
clf__subsample=0.7079688426097812, preprocessor__text__max_features=8195,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;

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total time= 2.0s
[CV] END clf__colsample_bytree=0.8011439630489768,
clf__learning_rate=0.03791523301305834, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=403,
clf__subsample=0.7079688426097812, preprocessor__text__max_features=8195,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.7s
[CV] END clf__colsample_bytree=0.9405719872476641,
clf__learning_rate=0.06757259887228993, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=780,
clf__subsample=0.7318096389561948, preprocessor__text__max_features=8256,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.9692552623135986,
clf__learning_rate=0.06952771416026901, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=836,
clf__subsample=0.8752580634848585, preprocessor__text__max_features=5542,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 25.5s
[CV] END clf__colsample_bytree=0.8011439630489768,
clf__learning_rate=0.03791523301305834, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=403,
clf__subsample=0.7079688426097812, preprocessor__text__max_features=8195,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.2s
[CV] END clf__colsample_bytree=0.892515481319571,
clf__learning_rate=0.059919974828722106, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=536,
clf__subsample=0.7440789536384641, preprocessor__text__max_features=5778,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 18.9s
[CV] END clf__colsample_bytree=0.9676799400225564,
clf__learning_rate=0.058316823787349224, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=787,
clf__subsample=0.8385594960925637, preprocessor__text__max_features=3100,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.1s
[CV] END clf__colsample_bytree=0.892515481319571,
clf__learning_rate=0.059919974828722106, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=536,
clf__subsample=0.7440789536384641, preprocessor__text__max_features=5778,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 20.4s
[CV] END clf__colsample_bytree=0.9676799400225564,
clf__learning_rate=0.058316823787349224, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=787,
clf__subsample=0.8385594960925637, preprocessor__text__max_features=3100,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.2s
[CV] END clf__colsample_bytree=0.9676799400225564,
clf__learning_rate=0.058316823787349224, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=787,
clf__subsample=0.8385594960925637, preprocessor__text__max_features=3100,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.0s
[CV] END clf__colsample_bytree=0.6145647871897666,
clf__learning_rate=0.13249392770353033, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=481,
clf__subsample=0.8574093578204045, preprocessor__text__max_features=4169,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.5s
[CV] END clf__colsample_bytree=0.6145647871897666,
clf__learning_rate=0.13249392770353033, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=481,
clf__subsample=0.8574093578204045, preprocessor__text__max_features=4169,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 15.1s
[CV] END clf__colsample_bytree=0.6512539831292892,
clf__learning_rate=0.06460045652807728, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=335,
clf__subsample=0.8743754866098594, preprocessor__text__max_features=4728,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.2s
[CV] END clf__colsample_bytree=0.8068597361128877,
clf__learning_rate=0.038954028883680644, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=894,
clf__subsample=0.9318050224319441, preprocessor__text__max_features=4285,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.1s
[CV] END clf__colsample_bytree=0.6512539831292892,
clf__learning_rate=0.06460045652807728, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=335,
clf__subsample=0.8743754866098594, preprocessor__text__max_features=4728,
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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 1.7s
[CV] END clf__colsample_bytree=0.89545846131533,
clf__learning_rate=0.05476811539921983, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=573,
clf__subsample=0.788338456840743, preprocessor__text__max_features=6609,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.3s
[CV] END clf__colsample_bytree=0.9074103862978817,
clf__learning_rate=0.12918181086594924, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=401,
clf__subsample=0.8585775653399799, preprocessor__text__max_features=3972,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.8s
[CV] END clf__colsample_bytree=0.9074103862978817,
clf__learning_rate=0.12918181086594924, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=401,
clf__subsample=0.8585775653399799, preprocessor__text__max_features=3972,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.8s
[CV] END clf__colsample_bytree=0.6512539831292892,
clf__learning_rate=0.06460045652807728, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=335,
clf__subsample=0.8743754866098594, preprocessor__text__max_features=4728,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.3s
[CV] END clf__colsample_bytree=0.89545846131533,
clf__learning_rate=0.05476811539921983, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=573,
clf__subsample=0.788338456840743, preprocessor__text__max_features=6609,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.1s
[CV] END clf__colsample_bytree=0.9585477499309152,
clf__learning_rate=0.05150534255986531, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=882,
clf__subsample=0.7073434542656233, preprocessor__text__max_features=3052,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.1s
[CV] END clf__colsample_bytree=0.9585477499309152,
clf__learning_rate=0.05150534255986531, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=882,

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clf__subsample=0.7073434542656233, preprocessor__text__max_features=3052,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.9s
[CV] END clf__colsample_bytree=0.8068597361128877,
clf__learning_rate=0.038954028883680644, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=894,
clf__subsample=0.9318050224319441, preprocessor__text__max_features=4285,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.9s
[CV] END clf__colsample_bytree=0.8068597361128877,
clf__learning_rate=0.038954028883680644, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=894,
clf__subsample=0.9318050224319441, preprocessor__text__max_features=4285,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.2s
[CV] END clf__colsample_bytree=0.9585477499309152,
clf__learning_rate=0.05150534255986531, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=882,
clf__subsample=0.7073434542656233, preprocessor__text__max_features=3052,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.8s
[CV] END clf__colsample_bytree=0.9074103862978817,
clf__learning_rate=0.12918181086594924, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=401,
clf__subsample=0.8585775653399799, preprocessor__text__max_features=3972,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.2s
[CV] END clf__colsample_bytree=0.89545846131533,
clf__learning_rate=0.05476811539921983, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=573,
clf__subsample=0.788338456840743, preprocessor__text__max_features=6609,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.1s
[CV] END clf__colsample_bytree=0.8527476458893388,
clf__learning_rate=0.0750080025262233, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=691,
clf__subsample=0.9061176842752138, preprocessor__text__max_features=5666,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.9116588710932854,
clf__learning_rate=0.13032325004002626, clf__max_depth=4,

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clf__min_child_weight=4, clf__n_estimators=817,
clf__subsample=0.8979325273114445, preprocessor__text__max_features=4252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.0s
[CV] END clf__colsample_bytree=0.9116588710932854,
clf__learning_rate=0.13032325004002626, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=817,
clf__subsample=0.8979325273114445, preprocessor__text__max_features=4252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.2s
[CV] END clf__colsample_bytree=0.719561549757993,
clf__learning_rate=0.058226933946893045, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=470,
clf__subsample=0.8224021102176526, preprocessor__text__max_features=5309,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.2s
[CV] END clf__colsample_bytree=0.719561549757993,
clf__learning_rate=0.058226933946893045, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=470,
clf__subsample=0.8224021102176526, preprocessor__text__max_features=5309,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.6s
[CV] END clf__colsample_bytree=0.719561549757993,
clf__learning_rate=0.058226933946893045, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=470,
clf__subsample=0.8224021102176526, preprocessor__text__max_features=5309,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.2s
[CV] END clf__colsample_bytree=0.9116588710932854,
clf__learning_rate=0.13032325004002626, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=817,
clf__subsample=0.8979325273114445, preprocessor__text__max_features=4252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.6s
[CV] END clf__colsample_bytree=0.9210966481133591,
clf__learning_rate=0.11939701498708558, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=735,
clf__subsample=0.8558477134925024, preprocessor__text__max_features=5450,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 23.2s
[CV] END clf__colsample_bytree=0.66627017940784,

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clf__learning_rate=0.10092422883423167, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=587,
clf__subsample=0.9821299610994925, preprocessor__text__max_features=5953,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.6s
[CV] END clf__colsample_bytree=0.6708774742400982,
clf__learning_rate=0.048131731718897355, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=404,
clf__subsample=0.7177914675753387, preprocessor__text__max_features=6422,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.7s
[CV] END clf__colsample_bytree=0.7916146013442262,
clf__learning_rate=0.03551556849741892, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=339,
clf__subsample=0.8880365526621548, preprocessor__text__max_features=7586,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.3s
[CV] END clf__colsample_bytree=0.8527476458893388,
clf__learning_rate=0.0750080025262233, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=691,
clf__subsample=0.9061176842752138, preprocessor__text__max_features=5666,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.0s
[CV] END clf__colsample_bytree=0.7916146013442262,
clf__learning_rate=0.03551556849741892, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=339,
clf__subsample=0.8880365526621548, preprocessor__text__max_features=7586,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.1s
[CV] END clf__colsample_bytree=0.66627017940784,
clf__learning_rate=0.10092422883423167, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=587,
clf__subsample=0.9821299610994925, preprocessor__text__max_features=5953,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.3s
[CV] END clf__colsample_bytree=0.6708774742400982,
clf__learning_rate=0.048131731718897355, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=404,
clf__subsample=0.7177914675753387, preprocessor__text__max_features=6422,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.5s[CV] END clf__colsample_bytree=0.8527476458893388,

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clf__learning_rate=0.0750080025262233, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=691,
clf__subsample=0.9061176842752138, preprocessor__text__max_features=5666,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.7s

[CV] END clf__colsample_bytree=0.9210966481133591,
clf__learning_rate=0.11939701498708558, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=735,
clf__subsample=0.8558477134925024, preprocessor__text__max_features=5450,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 26.9s

[CV] END clf__colsample_bytree=0.7916146013442262,
clf__learning_rate=0.03551556849741892, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=339,
clf__subsample=0.8880365526621548, preprocessor__text__max_features=7586,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.3s

[CV] END clf__colsample_bytree=0.6708774742400982,
clf__learning_rate=0.048131731718897355, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=404,
clf__subsample=0.7177914675753387, preprocessor__text__max_features=6422,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.5s

[CV] END clf__colsample_bytree=0.66627017940784,
clf__learning_rate=0.10092422883423167, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=587,
clf__subsample=0.9821299610994925, preprocessor__text__max_features=5953,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.3s

[CV] END clf__colsample_bytree=0.9333583592587618,
clf__learning_rate=0.13718828516867093, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=745,
clf__subsample=0.848323071706159, preprocessor__text__max_features=3957,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.8s

[CV] END clf__colsample_bytree=0.7759164362666162,
clf__learning_rate=0.11058375447378621, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=671,
clf__subsample=0.939124444133808, preprocessor__text__max_features=4031,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;

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total time= 7.0s
[CV] END clf__colsample_bytree=0.9643436463402618,
clf__learning_rate=0.04378064657485599, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=876,
clf__subsample=0.8639792477349892, preprocessor__text__max_features=5360,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.3s
[CV] END clf__colsample_bytree=0.9210966481133591,
clf__learning_rate=0.11939701498708558, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=735,
clf__subsample=0.8558477134925024, preprocessor__text__max_features=5450,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 34.5s
[CV] END clf__colsample_bytree=0.9333583592587618,
clf__learning_rate=0.13718828516867093, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=745,
clf__subsample=0.848323071706159, preprocessor__text__max_features=3957,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.6s
[CV] END clf__colsample_bytree=0.9770823753920489,
clf__learning_rate=0.1303066244621667, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=600,
clf__subsample=0.9862738754903861, preprocessor__text__max_features=3448,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.9s
[CV] END clf__colsample_bytree=0.9770823753920489,
clf__learning_rate=0.1303066244621667, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=600,
clf__subsample=0.9862738754903861, preprocessor__text__max_features=3448,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.8s
[CV] END clf__colsample_bytree=0.7436015116708381,
clf__learning_rate=0.06218735293541793, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=355,
clf__subsample=0.8279779926422522, preprocessor__text__max_features=6532,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.4s
[CV] END clf__colsample_bytree=0.7436015116708381,
clf__learning_rate=0.06218735293541793, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=355,
clf__subsample=0.8279779926422522, preprocessor__text__max_features=6532,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.9333583592587618,
clf__learning_rate=0.13718828516867093, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=745,
clf__subsample=0.848323071706159, preprocessor__text__max_features=3957,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.6s
[CV] END clf__colsample_bytree=0.9770823753920489,
clf__learning_rate=0.1303066244621667, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=600,
clf__subsample=0.9862738754903861, preprocessor__text__max_features=3448,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.1s
[CV] END clf__colsample_bytree=0.6184203468636453,
clf__learning_rate=0.047786942531618415, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=387,
clf__subsample=0.8637452962041783, preprocessor__text__max_features=6526,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.5s
[CV] END clf__colsample_bytree=0.6184203468636453,
clf__learning_rate=0.047786942531618415, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=387,
clf__subsample=0.8637452962041783, preprocessor__text__max_features=6526,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.3s
[CV] END clf__colsample_bytree=0.7759164362666162,
clf__learning_rate=0.11058375447378621, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=671,
clf__subsample=0.939124444133808, preprocessor__text__max_features=4031,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 15.0s
[CV] END clf__colsample_bytree=0.7436015116708381,
clf__learning_rate=0.06218735293541793, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=355,
clf__subsample=0.8279779926422522, preprocessor__text__max_features=6532,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 14.2s
[CV] END clf__colsample_bytree=0.6184203468636453,
clf__learning_rate=0.047786942531618415, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=387,
clf__subsample=0.8637452962041783, preprocessor__text__max_features=6526,

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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.8s
[CV] END clf__colsample_bytree=0.9643436463402618,
clf__learning_rate=0.04378064657485599, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=876,
clf__subsample=0.8639792477349892, preprocessor__text__max_features=5360,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.0s
[CV] END clf__colsample_bytree=0.7759164362666162,
clf__learning_rate=0.11058375447378621, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=671,
clf__subsample=0.939124444133808, preprocessor__text__max_features=4031,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 17.8s
[CV] END clf__colsample_bytree=0.8955429949421445,
clf__learning_rate=0.08406405661153347, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=742,
clf__subsample=0.9531234721344408, preprocessor__text__max_features=6582,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.6s
[CV] END clf__colsample_bytree=0.8955429949421445,
clf__learning_rate=0.08406405661153347, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=742,
clf__subsample=0.9531234721344408, preprocessor__text__max_features=6582,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.4s
[CV] END clf__colsample_bytree=0.9643436463402618,
clf__learning_rate=0.04378064657485599, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=876,
clf__subsample=0.8639792477349892, preprocessor__text__max_features=5360,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 22.5s
[CV] END clf__colsample_bytree=0.8826898737228559,
clf__learning_rate=0.1427507943209615, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=421,
clf__subsample=0.7456280959536257, preprocessor__text__max_features=3839,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.1s
[CV] END clf__colsample_bytree=0.8955429949421445,
clf__learning_rate=0.08406405661153347, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=742,

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clf__subsample=0.9531234721344408, preprocessor__text__max_features=6582,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.6s
[CV] END clf__colsample_bytree=0.799725072079718,
clf__learning_rate=0.10014454800485806, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=398,
clf__subsample=0.7147699353628828, preprocessor__text__max_features=7195,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.9s
[CV] END clf__colsample_bytree=0.7999950434603164,
clf__learning_rate=0.055060514931080135, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=607,
clf__subsample=0.9374282583084699, preprocessor__text__max_features=3032,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.799725072079718,
clf__learning_rate=0.10014454800485806, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=398,
clf__subsample=0.7147699353628828, preprocessor__text__max_features=7195,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.8s
[CV] END clf__colsample_bytree=0.8826898737228559,
clf__learning_rate=0.1427507943209615, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=421,
clf__subsample=0.7456280959536257, preprocessor__text__max_features=3839,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 15.5s
[CV] END clf__colsample_bytree=0.7999950434603164,
clf__learning_rate=0.055060514931080135, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=607,
clf__subsample=0.9374282583084699, preprocessor__text__max_features=3032,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.6s
[CV] END clf__colsample_bytree=0.799725072079718,
clf__learning_rate=0.10014454800485806, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=398,
clf__subsample=0.7147699353628828, preprocessor__text__max_features=7195,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.4s
[CV] END clf__colsample_bytree=0.634979328843773,
clf__learning_rate=0.1380344529896138, clf__max_depth=4,

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clf__min_child_weight=1, clf__n_estimators=499,
clf__subsample=0.7041702715932877, preprocessor__text__max_features=3175,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.8s
[CV] END clf__colsample_bytree=0.8826898737228559,
clf__learning_rate=0.1427507943209615, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=421,
clf__subsample=0.7456280959536257, preprocessor__text__max_features=3839,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 17.6s
[CV] END clf__colsample_bytree=0.634979328843773,
clf__learning_rate=0.1380344529896138, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=499,
clf__subsample=0.7041702715932877, preprocessor__text__max_features=3175,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.0s
[CV] END clf__colsample_bytree=0.634979328843773,
clf__learning_rate=0.1380344529896138, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=499,
clf__subsample=0.7041702715932877, preprocessor__text__max_features=3175,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.2s
[CV] END clf__colsample_bytree=0.7999950434603164,
clf__learning_rate=0.055060514931080135, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=607,
clf__subsample=0.9374282583084699, preprocessor__text__max_features=3032,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 15.6s
[CV] END clf__colsample_bytree=0.6867770781428116,
clf__learning_rate=0.06461675776688242, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=767,
clf__subsample=0.7018508869126873, preprocessor__text__max_features=7846,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.9s
[CV] END clf__colsample_bytree=0.7957543636265809,
clf__learning_rate=0.14229025752483548, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=542,
clf__subsample=0.8804697700472582, preprocessor__text__max_features=7756,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.2s
[CV] END clf__colsample_bytree=0.6210688484940605,

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clf__learning_rate=0.06820356608949213, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=447,
clf__subsample=0.9952671121961908, preprocessor__text__max_features=4729,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.2s
[CV] END clf__colsample_bytree=0.6210688484940605,
clf__learning_rate=0.06820356608949213, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=447,
clf__subsample=0.9952671121961908, preprocessor__text__max_features=4729,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.2s
[CV] END clf__colsample_bytree=0.7957543636265809,
clf__learning_rate=0.14229025752483548, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=542,
clf__subsample=0.8804697700472582, preprocessor__text__max_features=7756,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.0s
[CV] END clf__colsample_bytree=0.6949076602884616,
clf__learning_rate=0.13395170414676175, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=763,
clf__subsample=0.8309283712124063, preprocessor__text__max_features=6385,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 20.7s
[CV] END clf__colsample_bytree=0.6867770781428116,
clf__learning_rate=0.06461675776688242, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=767,
clf__subsample=0.7018508869126873, preprocessor__text__max_features=7846,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.6s
[CV] END clf__colsample_bytree=0.6210688484940605,
clf__learning_rate=0.06820356608949213, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=447,
clf__subsample=0.9952671121961908, preprocessor__text__max_features=4729,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.2s
[CV] END clf__colsample_bytree=0.7957543636265809,
clf__learning_rate=0.14229025752483548, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=542,
clf__subsample=0.8804697700472582, preprocessor__text__max_features=7756,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.9s

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[CV] END clf__colsample_bytree=0.6867770781428116,
clf__learning_rate=0.06461675776688242, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=767,
clf__subsample=0.7018508869126873, preprocessor__text__max_features=7846,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.3s
[CV] END clf__colsample_bytree=0.790921272102296,
clf__learning_rate=0.04221342688255925, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=831,
clf__subsample=0.9149842421833356, preprocessor__text__max_features=8712,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.6s
[CV] END clf__colsample_bytree=0.790921272102296,
clf__learning_rate=0.04221342688255925, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=831,
clf__subsample=0.9149842421833356, preprocessor__text__max_features=8712,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.9s
[CV] END clf__colsample_bytree=0.6949076602884616,
clf__learning_rate=0.13395170414676175, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=763,
clf__subsample=0.8309283712124063, preprocessor__text__max_features=6385,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 22.7s
[CV] END clf__colsample_bytree=0.790921272102296,
clf__learning_rate=0.04221342688255925, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=831,
clf__subsample=0.9149842421833356, preprocessor__text__max_features=8712,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.7s
[CV] END clf__colsample_bytree=0.7491556439824331,
clf__learning_rate=0.1315024458997072, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=343,
clf__subsample=0.9360651342742172, preprocessor__text__max_features=3047,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.7s
[CV] END clf__colsample_bytree=0.7491556439824331,
clf__learning_rate=0.1315024458997072, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=343,
clf__subsample=0.9360651342742172, preprocessor__text__max_features=3047,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 9.6s
[CV] END clf__colsample_bytree=0.6949076602884616,
clf__learning_rate=0.13395170414676175, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=763,
clf__subsample=0.8309283712124063, preprocessor__text__max_features=6385,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 29.1s
[CV] END clf__colsample_bytree=0.7601548458040519,
clf__learning_rate=0.09921606425985594, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=398,
clf__subsample=0.9420853145898413, preprocessor__text__max_features=6445,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.7s
[CV] END clf__colsample_bytree=0.7491556439824331,
clf__learning_rate=0.1315024458997072, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=343,
clf__subsample=0.9360651342742172, preprocessor__text__max_features=3047,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.3s
[CV] END clf__colsample_bytree=0.7601548458040519,
clf__learning_rate=0.09921606425985594, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=398,
clf__subsample=0.9420853145898413, preprocessor__text__max_features=6445,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.3s
[CV] END clf__colsample_bytree=0.7601548458040519,
clf__learning_rate=0.09921606425985594, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=398,
clf__subsample=0.9420853145898413, preprocessor__text__max_features=6445,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.6s
[CV] END clf__colsample_bytree=0.7205927059140638,
clf__learning_rate=0.0387958055897582, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=514,
clf__subsample=0.8870408073730247, preprocessor__text__max_features=5455,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.9s
[CV] END clf__colsample_bytree=0.8511738212981017,
clf__learning_rate=0.09378136534478387, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=776,
clf__subsample=0.8513282634883194, preprocessor__text__max_features=6650,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.4s
[CV] END clf__colsample_bytree=0.7205927059140638,
clf__learning_rate=0.0387958055897582, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=514,
clf__subsample=0.8870408073730247, preprocessor__text__max_features=5455,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.2s
[CV] END clf__colsample_bytree=0.9511340158392115,
clf__learning_rate=0.08275873641860174, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=820,
clf__subsample=0.8168465370766194, preprocessor__text__max_features=8867,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 36.1s
[CV] END clf__colsample_bytree=0.9511340158392115,
clf__learning_rate=0.08275873641860174, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=820,
clf__subsample=0.8168465370766194, preprocessor__text__max_features=8867,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 36.2s
[CV] END clf__colsample_bytree=0.8511738212981017,
clf__learning_rate=0.09378136534478387, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=776,
clf__subsample=0.8513282634883194, preprocessor__text__max_features=6650,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 20.1s
[CV] END clf__colsample_bytree=0.6706885490126028,
clf__learning_rate=0.06730828038653308, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=807,
clf__subsample=0.9659942757050652, preprocessor__text__max_features=4720,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.1s
[CV] END clf__colsample_bytree=0.6848560387976342,
clf__learning_rate=0.14688758541618954, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=332,
clf__subsample=0.7081592326652988, preprocessor__text__max_features=5238,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.4s
[CV] END clf__colsample_bytree=0.7205927059140638,
clf__learning_rate=0.0387958055897582, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=514,
clf__subsample=0.8870408073730247, preprocessor__text__max_features=5455,

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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.9s
[CV] END clf__colsample_bytree=0.6706885490126028,
clf__learning_rate=0.06730828038653308, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=807,
clf__subsample=0.9659942757050652, preprocessor__text__max_features=4720,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.7s
[CV] END clf__colsample_bytree=0.6848560387976342,
clf__learning_rate=0.14688758541618954, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=332,
clf__subsample=0.7081592326652988, preprocessor__text__max_features=5238,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.0s
[CV] END clf__colsample_bytree=0.9511340158392115,
clf__learning_rate=0.08275873641860174, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=820,
clf__subsample=0.8168465370766194, preprocessor__text__max_features=8867,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 41.1s
[CV] END clf__colsample_bytree=0.6848560387976342,
clf__learning_rate=0.14688758541618954, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=332,
clf__subsample=0.7081592326652988, preprocessor__text__max_features=5238,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 14.8s
[CV] END clf__colsample_bytree=0.6706885490126028,
clf__learning_rate=0.06730828038653308, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=807,
clf__subsample=0.9659942757050652, preprocessor__text__max_features=4720,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 24.6s
[CV] END clf__colsample_bytree=0.8511738212981017,
clf__learning_rate=0.09378136534478387, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=776,
clf__subsample=0.8513282634883194, preprocessor__text__max_features=6650,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 27.0s
[CV] END clf__colsample_bytree=0.6137611964009848,
clf__learning_rate=0.13782807946281128, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=452,

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clf__subsample=0.8639766091937142, preprocessor__text__max_features=4874,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.6137611964009848,
clf__learning_rate=0.13782807946281128, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=452,
clf__subsample=0.8639766091937142, preprocessor__text__max_features=4874,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.7s
[CV] END clf__colsample_bytree=0.7694609917576237,
clf__learning_rate=0.11835317383346808, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=407,
clf__subsample=0.9680795459350293, preprocessor__text__max_features=5365,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.7625046491102008,
clf__learning_rate=0.08587858547699115, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=361,
clf__subsample=0.7122915303964777, preprocessor__text__max_features=5070,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.2s
[CV] END clf__colsample_bytree=0.6137611964009848,
clf__learning_rate=0.13782807946281128, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=452,
clf__subsample=0.8639766091937142, preprocessor__text__max_features=4874,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.7625046491102008,
clf__learning_rate=0.08587858547699115, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=361,
clf__subsample=0.7122915303964777, preprocessor__text__max_features=5070,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.7s
[CV] END clf__colsample_bytree=0.7694609917576237,
clf__learning_rate=0.11835317383346808, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=407,
clf__subsample=0.9680795459350293, preprocessor__text__max_features=5365,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.2s
[CV] END clf__colsample_bytree=0.7694609917576237,
clf__learning_rate=0.11835317383346808, clf__max_depth=5,

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clf__min_child_weight=1, clf__n_estimators=407,
clf__subsample=0.9680795459350293, preprocessor__text__max_features=5365,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.4s
[CV] END clf__colsample_bytree=0.6330543518317372,
clf__learning_rate=0.1118124158861109, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=764,
clf__subsample=0.964184530153084, preprocessor__text__max_features=7680,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 16.2s
[CV] END clf__colsample_bytree=0.7625046491102008,
clf__learning_rate=0.08587858547699115, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=361,
clf__subsample=0.7122915303964777, preprocessor__text__max_features=5070,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 15.2s
[CV] END clf__colsample_bytree=0.9944199174524352,
clf__learning_rate=0.09710669809986605, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=439,
clf__subsample=0.9280926596568481, preprocessor__text__max_features=6979,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.4s
[CV] END clf__colsample_bytree=0.6330543518317372,
clf__learning_rate=0.1118124158861109, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=764,
clf__subsample=0.964184530153084, preprocessor__text__max_features=7680,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 22.1s
[CV] END clf__colsample_bytree=0.9944199174524352,
clf__learning_rate=0.09710669809986605, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=439,
clf__subsample=0.9280926596568481, preprocessor__text__max_features=6979,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.3s
[CV] END clf__colsample_bytree=0.7188026907619034,
clf__learning_rate=0.149493044104059, clf__max_depth=5, clf__min_child_weight=2,
clf__n_estimators=893, clf__subsample=0.8710586606698967,
preprocessor__text__max_features=6999, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 13.4s
[CV] END clf__colsample_bytree=0.7188026907619034,
clf__learning_rate=0.149493044104059, clf__max_depth=5, clf__min_child_weight=2,

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clf__n_estimators=893, clf__subsample=0.8710586606698967,
preprocessor__text__max_features=6999, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 13.9s
[CV] END clf__colsample_bytree=0.7188026907619034,
clf__learning_rate=0.149493044104059, clf__max_depth=5, clf__min_child_weight=2,
clf__n_estimators=893, clf__subsample=0.8710586606698967,
preprocessor__text__max_features=6999, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 14.6s
[CV] END clf__colsample_bytree=0.6330543518317372,
clf__learning_rate=0.1118124158861109, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=764,
clf__subsample=0.964184530153084, preprocessor__text__max_features=7680,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 25.9s
[CV] END clf__colsample_bytree=0.9944199174524352,
clf__learning_rate=0.09710669809986605, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=439,
clf__subsample=0.9280926596568481, preprocessor__text__max_features=6979,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.2s
[CV] END clf__colsample_bytree=0.6246992102823207,
clf__learning_rate=0.05503172976871777, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=680,
clf__subsample=0.986956494226702, preprocessor__text__max_features=8626,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.7s
[CV] END clf__colsample_bytree=0.6246992102823207,
clf__learning_rate=0.05503172976871777, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=680,
clf__subsample=0.986956494226702, preprocessor__text__max_features=8626,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.9s
[CV] END clf__colsample_bytree=0.6246992102823207,
clf__learning_rate=0.05503172976871777, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=680,
clf__subsample=0.986956494226702, preprocessor__text__max_features=8626,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.5s
[CV] END clf__colsample_bytree=0.6753204220920005,
clf__learning_rate=0.13409579738074065, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=853,

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clf__subsample=0.7446192865026261, preprocessor__text__max_features=7249,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 16.0s
[CV] END clf__colsample_bytree=0.6753204220920005,
clf__learning_rate=0.13409579738074065, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=853,
clf__subsample=0.7446192865026261, preprocessor__text__max_features=7249,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 19.1s
[CV] END clf__colsample_bytree=0.6712469743152173,
clf__learning_rate=0.04089651155272391, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=326, clf__subsample=0.86290807531274,
preprocessor__text__max_features=3449, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 13.9s
[CV] END clf__colsample_bytree=0.6712469743152173,
clf__learning_rate=0.04089651155272391, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=326, clf__subsample=0.86290807531274,
preprocessor__text__max_features=3449, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 16.1s
[CV] END clf__colsample_bytree=0.8572138993152066,
clf__learning_rate=0.05096912748682668, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=455,
clf__subsample=0.8550904351982971, preprocessor__text__max_features=3032,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.6s
[CV] END clf__colsample_bytree=0.6753204220920005,
clf__learning_rate=0.13409579738074065, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=853,
clf__subsample=0.7446192865026261, preprocessor__text__max_features=7249,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 20.5s
[CV] END clf__colsample_bytree=0.6712469743152173,
clf__learning_rate=0.04089651155272391, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=326, clf__subsample=0.86290807531274,
preprocessor__text__max_features=3449, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 15.5s
[CV] END clf__colsample_bytree=0.6615060977801424,
clf__learning_rate=0.05204634826177852, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=763,
clf__subsample=0.9501192127953756, preprocessor__text__max_features=3339,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 21.0s
[CV] END clf__colsample_bytree=0.6519233166866819,
clf__learning_rate=0.06150551712153117, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=871, clf__subsample=0.87759725162339,
preprocessor__text__max_features=8799, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 6.7s
[CV] END clf__colsample_bytree=0.8572138993152066,
clf__learning_rate=0.05096912748682668, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=455,
clf__subsample=0.8550904351982971, preprocessor__text__max_features=3032,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.7s
[CV] END clf__colsample_bytree=0.6087973132374641,
clf__learning_rate=0.12313297624656165, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=871,
clf__subsample=0.9680011236998973, preprocessor__text__max_features=6568,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.2s
[CV] END clf__colsample_bytree=0.6519233166866819,
clf__learning_rate=0.06150551712153117, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=871, clf__subsample=0.87759725162339,
preprocessor__text__max_features=8799, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 5.0s
[CV] END clf__colsample_bytree=0.6087973132374641,
clf__learning_rate=0.12313297624656165, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=871,
clf__subsample=0.9680011236998973, preprocessor__text__max_features=6568,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.6519233166866819,
clf__learning_rate=0.06150551712153117, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=871, clf__subsample=0.87759725162339,
preprocessor__text__max_features=8799, preprocessor__text__min_df=2,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 8.2s
[CV] END clf__colsample_bytree=0.6087973132374641,
clf__learning_rate=0.12313297624656165, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=871,
clf__subsample=0.9680011236998973, preprocessor__text__max_features=6568,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.1s

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[CV] END clf__colsample_bytree=0.8572138993152066,
clf__learning_rate=0.05096912748682668, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=455,
clf__subsample=0.8550904351982971, preprocessor__text__max_features=3032,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 18.5s
[CV] END clf__colsample_bytree=0.930313732345776,
clf__learning_rate=0.07984739437668778, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=453,
clf__subsample=0.8419563406121412, preprocessor__text__max_features=5608,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.9s
[CV] END clf__colsample_bytree=0.6615060977801424,
clf__learning_rate=0.05204634826177852, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=763,
clf__subsample=0.9501192127953756, preprocessor__text__max_features=3339,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 26.1s
[CV] END clf__colsample_bytree=0.930313732345776,
clf__learning_rate=0.07984739437668778, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=453,
clf__subsample=0.8419563406121412, preprocessor__text__max_features=5608,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.6s
[CV] END clf__colsample_bytree=0.930313732345776,
clf__learning_rate=0.07984739437668778, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=453,
clf__subsample=0.8419563406121412, preprocessor__text__max_features=5608,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.9s
[CV] END clf__colsample_bytree=0.7826347260817559,
clf__learning_rate=0.09695454583850505, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=473,
clf__subsample=0.8261217787980434, preprocessor__text__max_features=5669,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.6s
[CV] END clf__colsample_bytree=0.6615060977801424,
clf__learning_rate=0.05204634826177852, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=763,
clf__subsample=0.9501192127953756, preprocessor__text__max_features=3339,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

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total time= 30.3s
[CV] END clf__colsample_bytree=0.7826347260817559,
clf__learning_rate=0.09695454583850505, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=473,
clf__subsample=0.8261217787980434, preprocessor__text__max_features=5669,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.8s
[CV] END clf__colsample_bytree=0.7826347260817559,
clf__learning_rate=0.09695454583850505, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=473,
clf__subsample=0.8261217787980434, preprocessor__text__max_features=5669,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.6s
[CV] END clf__colsample_bytree=0.7904778992722028,
clf__learning_rate=0.1016858777401489, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=339,
clf__subsample=0.8039738403711799, preprocessor__text__max_features=6390,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.3s
[CV] END clf__colsample_bytree=0.7904778992722028,
clf__learning_rate=0.1016858777401489, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=339,
clf__subsample=0.8039738403711799, preprocessor__text__max_features=6390,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.2s
[CV] END clf__colsample_bytree=0.7018158440552458,
clf__learning_rate=0.06572464106812224, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=383,
clf__subsample=0.771959021616997, preprocessor__text__max_features=5790,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.1s
[CV] END clf__colsample_bytree=0.7904778992722028,
clf__learning_rate=0.1016858777401489, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=339,
clf__subsample=0.8039738403711799, preprocessor__text__max_features=6390,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.8s
[CV] END clf__colsample_bytree=0.8800660807617711,
clf__learning_rate=0.12132220714919623, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=783,
clf__subsample=0.7744128216598943, preprocessor__text__max_features=6424,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 14.9s
[CV] END clf__colsample_bytree=0.7018158440552458,
clf__learning_rate=0.06572464106812224, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=383,
clf__subsample=0.771959021616997, preprocessor__text__max_features=5790,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.3s
[CV] END clf__colsample_bytree=0.7018158440552458,
clf__learning_rate=0.06572464106812224, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=383,
clf__subsample=0.771959021616997, preprocessor__text__max_features=5790,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.5s
[CV] END clf__colsample_bytree=0.801071699314983,
clf__learning_rate=0.11811180221236854, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=486,
clf__subsample=0.7295441364457484, preprocessor__text__max_features=8289,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.0s
[CV] END clf__colsample_bytree=0.7871527875271791,
clf__learning_rate=0.04098711373773717, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=767,
clf__subsample=0.8322806165387384, preprocessor__text__max_features=6791,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.6s
[CV] END clf__colsample_bytree=0.8800660807617711,
clf__learning_rate=0.12132220714919623, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=783,
clf__subsample=0.7744128216598943, preprocessor__text__max_features=6424,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 20.0s
[CV] END clf__colsample_bytree=0.7871527875271791,
clf__learning_rate=0.04098711373773717, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=767,
clf__subsample=0.8322806165387384, preprocessor__text__max_features=6791,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.4s
[CV] END clf__colsample_bytree=0.801071699314983,
clf__learning_rate=0.11811180221236854, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=486,
clf__subsample=0.7295441364457484, preprocessor__text__max_features=8289,
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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.7s
[CV] END clf__colsample_bytree=0.7871527875271791,
clf__learning_rate=0.04098711373773717, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=767,
clf__subsample=0.8322806165387384, preprocessor__text__max_features=6791,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.1s
[CV] END clf__colsample_bytree=0.7229599385977592,
clf__learning_rate=0.03449409565937895, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=472,
clf__subsample=0.9126672999819306, preprocessor__text__max_features=5641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.3s
[CV] END clf__colsample_bytree=0.7229599385977592,
clf__learning_rate=0.03449409565937895, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=472,
clf__subsample=0.9126672999819306, preprocessor__text__max_features=5641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.9s
[CV] END clf__colsample_bytree=0.7229599385977592,
clf__learning_rate=0.03449409565937895, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=472,
clf__subsample=0.9126672999819306, preprocessor__text__max_features=5641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.3s
[CV] END clf__colsample_bytree=0.801071699314983,
clf__learning_rate=0.11811180221236854, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=486,
clf__subsample=0.7295441364457484, preprocessor__text__max_features=8289,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 14.0s
[CV] END clf__colsample_bytree=0.8800660807617711,
clf__learning_rate=0.12132220714919623, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=783,
clf__subsample=0.7744128216598943, preprocessor__text__max_features=6424,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 25.3s
[CV] END clf__colsample_bytree=0.8093874398513039,
clf__learning_rate=0.06927236596679424, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=557,

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clf__subsample=0.8055068159736932, preprocessor__text__max_features=8636,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.6s
[CV] END clf__colsample_bytree=0.9048607586489271,
clf__learning_rate=0.09393799336134163, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=776,
clf__subsample=0.7535784122708096, preprocessor__text__max_features=6605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.3s
[CV] END clf__colsample_bytree=0.9048607586489271,
clf__learning_rate=0.09393799336134163, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=776,
clf__subsample=0.7535784122708096, preprocessor__text__max_features=6605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.7s
[CV] END clf__colsample_bytree=0.9048607586489271,
clf__learning_rate=0.09393799336134163, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=776,
clf__subsample=0.7535784122708096, preprocessor__text__max_features=6605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.1s
[CV] END clf__colsample_bytree=0.8093874398513039,
clf__learning_rate=0.06927236596679424, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=557,
clf__subsample=0.8055068159736932, preprocessor__text__max_features=8636,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.7s
[CV] END clf__colsample_bytree=0.8093874398513039,
clf__learning_rate=0.06927236596679424, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=557,
clf__subsample=0.8055068159736932, preprocessor__text__max_features=8636,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.996653776646928,
clf__learning_rate=0.032581113422157415, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=455,
clf__subsample=0.8306159971128642, preprocessor__text__max_features=4101,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.9s
[CV] END clf__colsample_bytree=0.996653776646928,
clf__learning_rate=0.032581113422157415, clf__max_depth=3,

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clf__min_child_weight=4, clf__n_estimators=455,
clf__subsample=0.8306159971128642, preprocessor__text__max_features=4101,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.3s
[CV] END clf__colsample_bytree=0.6433808749364328,
clf__learning_rate=0.13269084175684734, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=496,
clf__subsample=0.985489918643027, preprocessor__text__max_features=8883,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.1s
[CV] END clf__colsample_bytree=0.996653776646928,
clf__learning_rate=0.032581113422157415, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=455,
clf__subsample=0.8306159971128642, preprocessor__text__max_features=4101,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.7s
[CV] END clf__colsample_bytree=0.6433808749364328,
clf__learning_rate=0.13269084175684734, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=496,
clf__subsample=0.985489918643027, preprocessor__text__max_features=8883,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.9s
[CV] END clf__colsample_bytree=0.6433808749364328,
clf__learning_rate=0.13269084175684734, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=496,
clf__subsample=0.985489918643027, preprocessor__text__max_features=8883,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.1s
[CV] END clf__colsample_bytree=0.8862065710556792,
clf__learning_rate=0.07975457030200644, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=496,
clf__subsample=0.7838201472281326, preprocessor__text__max_features=8619,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 15.7s
[CV] END clf__colsample_bytree=0.8862065710556792,
clf__learning_rate=0.07975457030200644, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=496,
clf__subsample=0.7838201472281326, preprocessor__text__max_features=8619,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 17.4s
[CV] END clf__colsample_bytree=0.8862065710556792,

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clf__learning_rate=0.07975457030200644, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=496,
clf__subsample=0.7838201472281326, preprocessor__text__max_features=8619,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 17.0s
[CV] END clf__colsample_bytree=0.6181748761557689,
clf__learning_rate=0.0654774987288528, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.7172130735318967, preprocessor__text__max_features=7423,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 45.4s
[CV] END clf__colsample_bytree=0.882437501580067,
clf__learning_rate=0.10594526286947532, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=518,
clf__subsample=0.7343249657127121, preprocessor__text__max_features=5487,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.7s
[CV] END clf__colsample_bytree=0.9735151925573553,
clf__learning_rate=0.04134595703482469, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=755,
clf__subsample=0.9537877437500601, preprocessor__text__max_features=5557,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.3s
[CV] END clf__colsample_bytree=0.6595307214150041,
clf__learning_rate=0.030066489965231164, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=489,
clf__subsample=0.9378342140551014, preprocessor__text__max_features=8596,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.1s
[CV] END clf__colsample_bytree=0.6595307214150041,
clf__learning_rate=0.030066489965231164, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=489,
clf__subsample=0.9378342140551014, preprocessor__text__max_features=8596,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.9s
[CV] END clf__colsample_bytree=0.882437501580067,
clf__learning_rate=0.10594526286947532, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=518,
clf__subsample=0.7343249657127121, preprocessor__text__max_features=5487,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.2s

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[CV] END clf__colsample_bytree=0.882437501580067,
clf__learning_rate=0.10594526286947532, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=518,
clf__subsample=0.7343249657127121, preprocessor__text__max_features=5487,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.2s
[CV] END clf__colsample_bytree=0.6595307214150041,
clf__learning_rate=0.030066489965231164, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=489,
clf__subsample=0.9378342140551014, preprocessor__text__max_features=8596,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.9735151925573553,
clf__learning_rate=0.04134595703482469, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=755,
clf__subsample=0.9537877437500601, preprocessor__text__max_features=5557,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.4s
[CV] END clf__colsample_bytree=0.6181748761557689,
clf__learning_rate=0.0654774987288528, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.7172130735318967, preprocessor__text__max_features=7423,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 56.8s
[CV] END clf__colsample_bytree=0.8671227997827338,
clf__learning_rate=0.1400085192040112, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=493,
clf__subsample=0.9859644146909119, preprocessor__text__max_features=3852,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.9735151925573553,
clf__learning_rate=0.04134595703482469, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=755,
clf__subsample=0.9537877437500601, preprocessor__text__max_features=5557,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.8s
[CV] END clf__colsample_bytree=0.8671227997827338,
clf__learning_rate=0.1400085192040112, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=493,
clf__subsample=0.9859644146909119, preprocessor__text__max_features=3852,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 8.9s
[CV] END clf__colsample_bytree=0.9400674977866386,
clf__learning_rate=0.05289734192954737, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=555,
clf__subsample=0.7309948948123531, preprocessor__text__max_features=8458,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.0s
[CV] END clf__colsample_bytree=0.8671227997827338,
clf__learning_rate=0.1400085192040112, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=493,
clf__subsample=0.9859644146909119, preprocessor__text__max_features=3852,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.2s
[CV] END clf__colsample_bytree=0.6181748761557689,
clf__learning_rate=0.0654774987288528, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.7172130735318967, preprocessor__text__max_features=7423,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 57.8s
[CV] END clf__colsample_bytree=0.9400674977866386,
clf__learning_rate=0.05289734192954737, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=555,
clf__subsample=0.7309948948123531, preprocessor__text__max_features=8458,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 19.6s
[CV] END clf__colsample_bytree=0.9775718804315823,
clf__learning_rate=0.10687198378353562, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=641,
clf__subsample=0.8743722578379685, preprocessor__text__max_features=8823,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.4s
[CV] END clf__colsample_bytree=0.8308785901326616,
clf__learning_rate=0.1002559943888232, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=409,
clf__subsample=0.9240201970008617, preprocessor__text__max_features=7641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.8s
[CV] END clf__colsample_bytree=0.9400674977866386,
clf__learning_rate=0.05289734192954737, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=555,
clf__subsample=0.7309948948123531, preprocessor__text__max_features=8458,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 19.4s
[CV] END clf__colsample_bytree=0.8308785901326616,
clf__learning_rate=0.1002559943888232, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=409,
clf__subsample=0.9240201970008617, preprocessor__text__max_features=7641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.0s
[CV] END clf__colsample_bytree=0.8308785901326616,
clf__learning_rate=0.1002559943888232, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=409,
clf__subsample=0.9240201970008617, preprocessor__text__max_features=7641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.5s
[CV] END clf__colsample_bytree=0.711684920073179,
clf__learning_rate=0.09343239403323153, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=313,
clf__subsample=0.988989002574598, preprocessor__text__max_features=6488,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.2s
[CV] END clf__colsample_bytree=0.6787288443964009,
clf__learning_rate=0.14243003376546032, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=637,
clf__subsample=0.9054176781962359, preprocessor__text__max_features=4259,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.9s
[CV] END clf__colsample_bytree=0.9775718804315823,
clf__learning_rate=0.10687198378353562, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=641,
clf__subsample=0.8743722578379685, preprocessor__text__max_features=8823,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 15.9s
[CV] END clf__colsample_bytree=0.711684920073179,
clf__learning_rate=0.09343239403323153, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=313,
clf__subsample=0.988989002574598, preprocessor__text__max_features=6488,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.7742655573383304,
clf__learning_rate=0.11502715551716512, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=508,
clf__subsample=0.9372601707619559, preprocessor__text__max_features=5952,
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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.711684920073179,
clf__learning_rate=0.09343239403323153, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=313,
clf__subsample=0.988989002574598, preprocessor__text__max_features=6488,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.0s
[CV] END clf__colsample_bytree=0.7742655573383304,
clf__learning_rate=0.11502715551716512, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=508,
clf__subsample=0.9372601707619559, preprocessor__text__max_features=5952,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.9s
[CV] END clf__colsample_bytree=0.7742655573383304,
clf__learning_rate=0.11502715551716512, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=508,
clf__subsample=0.9372601707619559, preprocessor__text__max_features=5952,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.8s
[CV] END clf__colsample_bytree=0.6787288443964009,
clf__learning_rate=0.14243003376546032, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=637,
clf__subsample=0.9054176781962359, preprocessor__text__max_features=4259,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.1s
[CV] END clf__colsample_bytree=0.6787288443964009,
clf__learning_rate=0.14243003376546032, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=637,
clf__subsample=0.9054176781962359, preprocessor__text__max_features=4259,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.8s
[CV] END clf__colsample_bytree=0.9775718804315823,
clf__learning_rate=0.10687198378353562, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=641,
clf__subsample=0.8743722578379685, preprocessor__text__max_features=8823,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.1s
[CV] END clf__colsample_bytree=0.6980878581960432,
clf__learning_rate=0.056904489078909895, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=784,

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clf__subsample=0.7835962460608672, preprocessor__text__max_features=7122,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.8s
[CV] END clf__colsample_bytree=0.6980878581960432,
clf__learning_rate=0.056904489078909895, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=784,
clf__subsample=0.7835962460608672, preprocessor__text__max_features=7122,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.6s
[CV] END clf__colsample_bytree=0.6980878581960432,
clf__learning_rate=0.056904489078909895, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=784,
clf__subsample=0.7835962460608672, preprocessor__text__max_features=7122,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.6s
[CV] END clf__colsample_bytree=0.6980878581960432,
clf__learning_rate=0.056904489078909895, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=784,
clf__subsample=0.7835962460608672, preprocessor__text__max_features=7122,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.3s
[CV] END clf__colsample_bytree=0.7211752664095681,
clf__learning_rate=0.060125319749682674, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=892,
clf__subsample=0.8649503850004433, preprocessor__text__max_features=5872,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 23.1s
[CV] END clf__colsample_bytree=0.7894135096311443,
clf__learning_rate=0.13256961308157728, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=566,
clf__subsample=0.834280443459966, preprocessor__text__max_features=4017,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.5s
[CV] END clf__colsample_bytree=0.7484938642644389,
clf__learning_rate=0.13534909611803095, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=840,
clf__subsample=0.9235654431929501, preprocessor__text__max_features=5783,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.6s
[CV] END clf__colsample_bytree=0.9567765483374131,
clf__learning_rate=0.113568465122131, clf__max_depth=7, clf__min_child_weight=1,
clf__n_estimators=844, clf__subsample=0.743387514084989,
preprocessor__text__max_features=5298, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=True; total time= 25.3s
[CV] END clf__colsample_bytree=0.7894135096311443,
clf__learning_rate=0.13256961308157728, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=566,

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clf__subsample=0.834280443459966, preprocessor__text__max_features=4017,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.4s
[CV] END clf__colsample_bytree=0.7998368879810299,
clf__learning_rate=0.12221099664038237, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=315,
clf__subsample=0.8240879996012644, preprocessor__text__max_features=8687,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.7484938642644389,
clf__learning_rate=0.13534909611803095, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=840,
clf__subsample=0.9235654431929501, preprocessor__text__max_features=5783,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 15.5s
[CV] END clf__colsample_bytree=0.7894135096311443,
clf__learning_rate=0.13256961308157728, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=566,
clf__subsample=0.834280443459966, preprocessor__text__max_features=4017,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.7211752664095681,
clf__learning_rate=0.060125319749682674, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=892,
clf__subsample=0.8649503850004433, preprocessor__text__max_features=5872,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 29.8s
[CV] END clf__colsample_bytree=0.7998368879810299,
clf__learning_rate=0.12221099664038237, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=315,
clf__subsample=0.8240879996012644, preprocessor__text__max_features=8687,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.7484938642644389,
clf__learning_rate=0.13534909611803095, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=840,
clf__subsample=0.9235654431929501, preprocessor__text__max_features=5783,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 18.5s
[CV] END clf__colsample_bytree=0.9567765483374131,
clf__learning_rate=0.113568465122131, clf__max_depth=7, clf__min_child_weight=1,

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clf__n_estimators=844, clf__subsample=0.743387514084989,
preprocessor__text__max_features=5298, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=True; total time= 29.8s
[CV] END clf__colsample_bytree=0.8006352573282378,
clf__learning_rate=0.08644938390786916, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=768,
clf__subsample=0.7693104338887649, preprocessor__text__max_features=3558,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.3s
[CV] END clf__colsample_bytree=0.7998368879810299,
clf__learning_rate=0.12221099664038237, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=315,
clf__subsample=0.8240879996012644, preprocessor__text__max_features=8687,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.4s
[CV] END clf__colsample_bytree=0.9567765483374131,
clf__learning_rate=0.113568465122131, clf__max_depth=7, clf__min_child_weight=1,
clf__n_estimators=844, clf__subsample=0.743387514084989,
preprocessor__text__max_features=5298, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=True; total time= 32.7s
[CV] END clf__colsample_bytree=0.8006352573282378,
clf__learning_rate=0.08644938390786916, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=768,
clf__subsample=0.7693104338887649, preprocessor__text__max_features=3558,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.3s
[CV] END clf__colsample_bytree=0.7211752664095681,
clf__learning_rate=0.060125319749682674, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=892,
clf__subsample=0.8649503850004433, preprocessor__text__max_features=5872,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 36.1s
[CV] END clf__colsample_bytree=0.711642947621471,
clf__learning_rate=0.06604370489291689, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=657,
clf__subsample=0.9853641127006809, preprocessor__text__max_features=7525,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 20.7s
[CV] END clf__colsample_bytree=0.6504862454511785,
clf__learning_rate=0.13620378213345563, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=310,

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clf__subsample=0.784572305755443, preprocessor__text__max_features=5685,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.3s
[CV] END clf__colsample_bytree=0.711642947621471,
clf__learning_rate=0.06604370489291689, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=657,
clf__subsample=0.9853641127006809, preprocessor__text__max_features=7525,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 18.9s
[CV] END clf__colsample_bytree=0.8006352573282378,
clf__learning_rate=0.08644938390786916, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=768,
clf__subsample=0.7693104338887649, preprocessor__text__max_features=3558,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.3s
[CV] END clf__colsample_bytree=0.6504862454511785,
clf__learning_rate=0.13620378213345563, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=310,
clf__subsample=0.784572305755443, preprocessor__text__max_features=5685,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.4s
[CV] END clf__colsample_bytree=0.711642947621471,
clf__learning_rate=0.06604370489291689, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=657,
clf__subsample=0.9853641127006809, preprocessor__text__max_features=7525,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 23.0s
[CV] END clf__colsample_bytree=0.6504862454511785,
clf__learning_rate=0.13620378213345563, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=310,
clf__subsample=0.784572305755443, preprocessor__text__max_features=5685,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.3s
[CV] END clf__colsample_bytree=0.6261542489075,
clf__learning_rate=0.04153114100842106, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=835,
clf__subsample=0.7507396844565549, preprocessor__text__max_features=8155,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.0s
[CV] END clf__colsample_bytree=0.6261542489075,
clf__learning_rate=0.04153114100842106, clf__max_depth=7,

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clf__min_child_weight=5, clf__n_estimators=835,
clf__subsample=0.7507396844565549, preprocessor__text__max_features=8155,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.5s
[CV] END clf__colsample_bytree=0.9654018839288432,
clf__learning_rate=0.06928832014209407, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=423,
clf__subsample=0.7263427458070083, preprocessor__text__max_features=5526,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.7s
[CV] END clf__colsample_bytree=0.8001089819970846,
clf__learning_rate=0.13748190712745992, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=693,
clf__subsample=0.846161037953426, preprocessor__text__max_features=4519,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.2s
[CV] END clf__colsample_bytree=0.9654018839288432,
clf__learning_rate=0.06928832014209407, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=423,
clf__subsample=0.7263427458070083, preprocessor__text__max_features=5526,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.1s
[CV] END clf__colsample_bytree=0.8001089819970846,
clf__learning_rate=0.13748190712745992, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=693,
clf__subsample=0.846161037953426, preprocessor__text__max_features=4519,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.6s
[CV] END clf__colsample_bytree=0.9654018839288432,
clf__learning_rate=0.06928832014209407, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=423,
clf__subsample=0.7263427458070083, preprocessor__text__max_features=5526,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.1s
[CV] END clf__colsample_bytree=0.8003904615229607,
clf__learning_rate=0.10840635394519463, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=440,
clf__subsample=0.9397350375708027, preprocessor__text__max_features=7001,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.7s
[CV] END clf__colsample_bytree=0.8003904615229607,

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clf__learning_rate=0.10840635394519463, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=440,
clf__subsample=0.9397350375708027, preprocessor__text__max_features=7001,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.6s
[CV] END clf__colsample_bytree=0.8001089819970846,
clf__learning_rate=0.13748190712745992, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=693,
clf__subsample=0.846161037953426, preprocessor__text__max_features=4519,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.1s
[CV] END clf__colsample_bytree=0.6261542489075,
clf__learning_rate=0.04153114100842106, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=835,
clf__subsample=0.7507396844565549, preprocessor__text__max_features=8155,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 27.6s
[CV] END clf__colsample_bytree=0.8832120385765867,
clf__learning_rate=0.1134766718212728, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=644,
clf__subsample=0.9581149075436286, preprocessor__text__max_features=8637,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.1s
[CV] END clf__colsample_bytree=0.8003904615229607,
clf__learning_rate=0.10840635394519463, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=440,
clf__subsample=0.9397350375708027, preprocessor__text__max_features=7001,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.2s
[CV] END clf__colsample_bytree=0.7504680011537028,
clf__learning_rate=0.14678110786348586, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=381,
clf__subsample=0.9842146335388826, preprocessor__text__max_features=3370,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.2s
[CV] END clf__colsample_bytree=0.8832120385765867,
clf__learning_rate=0.1134766718212728, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=644,
clf__subsample=0.9581149075436286, preprocessor__text__max_features=8637,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.4s

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[CV] END clf__colsample_bytree=0.7504680011537028,
clf__learning_rate=0.14678110786348586, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=381,
clf__subsample=0.9842146335388826, preprocessors__text__max_features=3370,
preprocessors__text__min_df=3, preprocessors__text__ngram_range=(1, 2),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 11.3s
[CV] END clf__colsample_bytree=0.7308315817187113,
clf__learning_rate=0.10024832555282072, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=594,
clf__subsample=0.8372930221368144, preprocessors__text__max_features=4502,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 2),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.8832120385765867,
clf__learning_rate=0.1134766718212728, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=644,
clf__subsample=0.9581149075436286, preprocessors__text__max_features=8637,
preprocessors__text__min_df=3, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=True, preprocessors__text__sublinear_tf=True;
total time= 8.5s
[CV] END clf__colsample_bytree=0.7308315817187113,
clf__learning_rate=0.10024832555282072, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=594,
clf__subsample=0.8372930221368144, preprocessors__text__max_features=4502,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 2),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 11.4s
[CV] END clf__colsample_bytree=0.7308315817187113,
clf__learning_rate=0.10024832555282072, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=594,
clf__subsample=0.8372930221368144, preprocessors__text__max_features=4502,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 2),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 11.5s
[CV] END clf__colsample_bytree=0.7504680011537028,
clf__learning_rate=0.14678110786348586, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=381,
clf__subsample=0.9842146335388826, preprocessors__text__max_features=3370,
preprocessors__text__min_df=3, preprocessors__text__ngram_range=(1, 2),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 15.1s
[CV] END clf__colsample_bytree=0.6689623853088512,
clf__learning_rate=0.08497102681297908, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=640,
clf__subsample=0.847006173456252, preprocessors__text__max_features=4700,
preprocessors__text__min_df=2, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;

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total time= 4.4s
[CV] END clf__colsample_bytree=0.6689623853088512,
clf__learning_rate=0.08497102681297908, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=640,
clf__subsample=0.847006173456252, preprocessor__text__max_features=4700,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.0s
[CV] END clf__colsample_bytree=0.6689623853088512,
clf__learning_rate=0.08497102681297908, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=640,
clf__subsample=0.847006173456252, preprocessor__text__max_features=4700,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.4s
[CV] END clf__colsample_bytree=0.7059539771547776,
clf__learning_rate=0.054142624596833167, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=446,
clf__subsample=0.9860172847457626, preprocessor__text__max_features=5406,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.6s
[CV] END clf__colsample_bytree=0.8282279338585466,
clf__learning_rate=0.05986443206045872, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=570,
clf__subsample=0.7830959272715232, preprocessor__text__max_features=6839,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.8s
[CV] END clf__colsample_bytree=0.7059539771547776,
clf__learning_rate=0.054142624596833167, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=446,
clf__subsample=0.9860172847457626, preprocessor__text__max_features=5406,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.4s
[CV] END clf__colsample_bytree=0.9529300449990965,
clf__learning_rate=0.10573764555316607, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=836,
clf__subsample=0.8823596951986391, preprocessor__text__max_features=3633,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 25.9s
[CV] END clf__colsample_bytree=0.7059539771547776,
clf__learning_rate=0.054142624596833167, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=446,
clf__subsample=0.9860172847457626, preprocessor__text__max_features=5406,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.2s
[CV] END clf__colsample_bytree=0.9529300449990965,
clf__learning_rate=0.10573764555316607, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=836,
clf__subsample=0.8823596951986391, preprocessor__text__max_features=3633,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 26.5s
[CV] END clf__colsample_bytree=0.9965461964732615,
clf__learning_rate=0.08089680688209763, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=621,
clf__subsample=0.7074575117319379, preprocessor__text__max_features=8690,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.2s
[CV] END clf__colsample_bytree=0.9529300449990965,
clf__learning_rate=0.10573764555316607, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=836,
clf__subsample=0.8823596951986391, preprocessor__text__max_features=3633,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 27.6s
[CV] END clf__colsample_bytree=0.9965461964732615,
clf__learning_rate=0.08089680688209763, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=621,
clf__subsample=0.7074575117319379, preprocessor__text__max_features=8690,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.2s
[CV] END clf__colsample_bytree=0.8282279338585466,
clf__learning_rate=0.05986443206045872, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=570,
clf__subsample=0.7830959272715232, preprocessor__text__max_features=6839,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.3s
[CV] END clf__colsample_bytree=0.8282279338585466,
clf__learning_rate=0.05986443206045872, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=570,
clf__subsample=0.7830959272715232, preprocessor__text__max_features=6839,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.2s
[CV] END clf__colsample_bytree=0.9965461964732615,
clf__learning_rate=0.08089680688209763, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=621,
clf__subsample=0.7074575117319379, preprocessor__text__max_features=8690,

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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.3s
[CV] END clf__colsample_bytree=0.7217854464348095,
clf__learning_rate=0.1310050031231888, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=770,
clf__subsample=0.9814520487571612, preprocessor__text__max_features=7172,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.6s
[CV] END clf__colsample_bytree=0.9136552685911712,
clf__learning_rate=0.06008304685419817, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=805,
clf__subsample=0.7344888469760802, preprocessor__text__max_features=5452,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.7s
[CV] END clf__colsample_bytree=0.8658479307132074,
clf__learning_rate=0.03453284555417924, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=426,
clf__subsample=0.7731431083893265, preprocessor__text__max_features=4909,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.9s
[CV] END clf__colsample_bytree=0.8658479307132074,
clf__learning_rate=0.03453284555417924, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=426,
clf__subsample=0.7731431083893265, preprocessor__text__max_features=4909,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.7s
[CV] END clf__colsample_bytree=0.8658479307132074,
clf__learning_rate=0.03453284555417924, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=426,
clf__subsample=0.7731431083893265, preprocessor__text__max_features=4909,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.6s
[CV] END clf__colsample_bytree=0.9136552685911712,
clf__learning_rate=0.06008304685419817, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=805,
clf__subsample=0.7344888469760802, preprocessor__text__max_features=5452,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.2s
[CV] END clf__colsample_bytree=0.7217854464348095,
clf__learning_rate=0.1310050031231888, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=770,

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clf__subsample=0.9814520487571612, preprocessor__text__max_features=7172,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.7217854464348095,
clf__learning_rate=0.1310050031231888, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=770,
clf__subsample=0.9814520487571612, preprocessor__text__max_features=7172,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.8s
[CV] END clf__colsample_bytree=0.9136552685911712,
clf__learning_rate=0.06008304685419817, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=805,
clf__subsample=0.7344888469760802, preprocessor__text__max_features=5452,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 15.0s
[CV] END clf__colsample_bytree=0.7870829235485146,
clf__learning_rate=0.09624761210287523, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=762,
clf__subsample=0.728555441460349, preprocessor__text__max_features=8099,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.6s
[CV] END clf__colsample_bytree=0.7870829235485146,
clf__learning_rate=0.09624761210287523, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=762,
clf__subsample=0.728555441460349, preprocessor__text__max_features=8099,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.9s
[CV] END clf__colsample_bytree=0.6369724051098485,
clf__learning_rate=0.03838394014717211, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=432,
clf__subsample=0.9908423424347785, preprocessor__text__max_features=3121,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.9s
[CV] END clf__colsample_bytree=0.7785882632587743,
clf__learning_rate=0.03640811963151343, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=692,
clf__subsample=0.7567976873603078, preprocessor__text__max_features=5292,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.4s
[CV] END clf__colsample_bytree=0.6369724051098485,
clf__learning_rate=0.03838394014717211, clf__max_depth=4,

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clf__min_child_weight=3, clf__n_estimators=432,
clf__subsample=0.9908423424347785, preprocessor__text__max_features=3121,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.7785882632587743,
clf__learning_rate=0.03640811963151343, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=692,
clf__subsample=0.7567976873603078, preprocessor__text__max_features=5292,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.5s
[CV] END clf__colsample_bytree=0.7870829235485146,
clf__learning_rate=0.09624761210287523, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=762,
clf__subsample=0.728555441460349, preprocessor__text__max_features=8099,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.4s
[CV] END clf__colsample_bytree=0.6369724051098485,
clf__learning_rate=0.03838394014717211, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=432,
clf__subsample=0.9908423424347785, preprocessor__text__max_features=3121,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.9s
[CV] END clf__colsample_bytree=0.7785882632587743,
clf__learning_rate=0.03640811963151343, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=692,
clf__subsample=0.7567976873603078, preprocessor__text__max_features=5292,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.3s
[CV] END clf__colsample_bytree=0.771201899904571,
clf__learning_rate=0.0935220049243245, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=583,
clf__subsample=0.9397608299160858, preprocessor__text__max_features=8511,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.8s
[CV] END clf__colsample_bytree=0.8195654514511415,
clf__learning_rate=0.1078556432193005, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=741,
clf__subsample=0.9886217569483703, preprocessor__text__max_features=7396,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.2s
[CV] END clf__colsample_bytree=0.8794332724085747,

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clf__learning_rate=0.09814757782497104, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=745,
clf__subsample=0.8455192912407179, preprocessor__text__max_features=6261,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 17.3s
[CV] END clf__colsample_bytree=0.8195654514511415,
clf__learning_rate=0.1078556432193005, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=741,
clf__subsample=0.9886217569483703, preprocessor__text__max_features=7396,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.3s
[CV] END clf__colsample_bytree=0.8195654514511415,
clf__learning_rate=0.1078556432193005, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=741,
clf__subsample=0.9886217569483703, preprocessor__text__max_features=7396,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.1s
[CV] END clf__colsample_bytree=0.771201899904571,
clf__learning_rate=0.0935220049243245, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=583,
clf__subsample=0.9397608299160858, preprocessor__text__max_features=8511,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.1s
[CV] END clf__colsample_bytree=0.8794332724085747,
clf__learning_rate=0.09814757782497104, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=745,
clf__subsample=0.8455192912407179, preprocessor__text__max_features=6261,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 23.2s
[CV] END clf__colsample_bytree=0.8794332724085747,
clf__learning_rate=0.09814757782497104, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=745,
clf__subsample=0.8455192912407179, preprocessor__text__max_features=6261,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 21.4s
[CV] END clf__colsample_bytree=0.7207012278290195,
clf__learning_rate=0.09260272553774196, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=483,
clf__subsample=0.8456249171546664, preprocessor__text__max_features=7547,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.7s

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[CV] END clf__colsample_bytree=0.7207012278290195,
clf__learning_rate=0.09260272553774196, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=483,
clf__subsample=0.8456249171546664, preprocessor__text__max_features=7547,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.5s
[CV] END clf__colsample_bytree=0.771201899904571,
clf__learning_rate=0.0935220049243245, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=583,
clf__subsample=0.9397608299160858, preprocessor__text__max_features=8511,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.9s
[CV] END clf__colsample_bytree=0.8425231004130593,
clf__learning_rate=0.04250526282512626, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=787,
clf__subsample=0.9448506347170096, preprocessor__text__max_features=8979,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 30.8s
[CV] END clf__colsample_bytree=0.9840578661365119,
clf__learning_rate=0.10912960721528715, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=836,
clf__subsample=0.7433541382558062, preprocessor__text__max_features=7456,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 16.8s
[CV] END clf__colsample_bytree=0.8425231004130593,
clf__learning_rate=0.04250526282512626, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=787,
clf__subsample=0.9448506347170096, preprocessor__text__max_features=8979,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 32.1s
[CV] END clf__colsample_bytree=0.8425231004130593,
clf__learning_rate=0.04250526282512626, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=787,
clf__subsample=0.9448506347170096, preprocessor__text__max_features=8979,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 34.8s
[CV] END clf__colsample_bytree=0.7207012278290195,
clf__learning_rate=0.09260272553774196, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=483,
clf__subsample=0.8456249171546664, preprocessor__text__max_features=7547,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;

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total time= 19.9s
[CV] END clf__colsample_bytree=0.9840578661365119,
clf__learning_rate=0.10912960721528715, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=836,
clf__subsample=0.7433541382558062, preprocessor__text__max_features=7456,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 19.7s
[CV] END clf__colsample_bytree=0.7237122395923736,
clf__learning_rate=0.05716036176692084, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=418,
clf__subsample=0.874321193659597, preprocessor__text__max_features=4776,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.4s
[CV] END clf__colsample_bytree=0.9840578661365119,
clf__learning_rate=0.10912960721528715, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=836,
clf__subsample=0.7433541382558062, preprocessor__text__max_features=7456,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 21.8s
[CV] END clf__colsample_bytree=0.6774461398989563,
clf__learning_rate=0.10639525227485166, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=371,
clf__subsample=0.9131965342517647, preprocessor__text__max_features=3853,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.7s
[CV] END clf__colsample_bytree=0.8593105075091012,
clf__learning_rate=0.06083999803909673, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.9459998424687458, preprocessor__text__max_features=7155,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 17.4s
[CV] END clf__colsample_bytree=0.7237122395923736,
clf__learning_rate=0.05716036176692084, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=418,
clf__subsample=0.874321193659597, preprocessor__text__max_features=4776,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 14.9s
[CV] END clf__colsample_bytree=0.9160565396716218,
clf__learning_rate=0.12595564357437955, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=486,
clf__subsample=0.7226952598517187, preprocessor__text__max_features=8042,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.4s
[CV] END clf__colsample_bytree=0.6774461398989563,
clf__learning_rate=0.10639525227485166, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=371,
clf__subsample=0.9131965342517647, preprocessor__text__max_features=3853,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.4s
[CV] END clf__colsample_bytree=0.6774461398989563,
clf__learning_rate=0.10639525227485166, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=371,
clf__subsample=0.9131965342517647, preprocessor__text__max_features=3853,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.5s
[CV] END clf__colsample_bytree=0.7237122395923736,
clf__learning_rate=0.05716036176692084, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=418,
clf__subsample=0.874321193659597, preprocessor__text__max_features=4776,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.8s
[CV] END clf__colsample_bytree=0.7333359792418503,
clf__learning_rate=0.09203560279195452, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=839,
clf__subsample=0.7302585543986148, preprocessor__text__max_features=3604,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.9s
[CV] END clf__colsample_bytree=0.7333359792418503,
clf__learning_rate=0.09203560279195452, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=839,
clf__subsample=0.7302585543986148, preprocessor__text__max_features=3604,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.7s
[CV] END clf__colsample_bytree=0.9160565396716218,
clf__learning_rate=0.12595564357437955, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=486,
clf__subsample=0.7226952598517187, preprocessor__text__max_features=8042,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.9s
[CV] END clf__colsample_bytree=0.8593105075091012,
clf__learning_rate=0.06083999803909673, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.9459998424687458, preprocessor__text__max_features=7155,

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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 19.8s
[CV] END clf__colsample_bytree=0.9484910303350835,
clf__learning_rate=0.09969365727150849, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=319,
clf__subsample=0.7750768606862747, preprocessor__text__max_features=7557,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.5s
[CV] END clf__colsample_bytree=0.7333359792418503,
clf__learning_rate=0.09203560279195452, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=839,
clf__subsample=0.7302585543986148, preprocessor__text__max_features=3604,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.1s
[CV] END clf__colsample_bytree=0.8593105075091012,
clf__learning_rate=0.06083999803909673, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.9459998424687458, preprocessor__text__max_features=7155,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 22.7s
[CV] END clf__colsample_bytree=0.9160565396716218,
clf__learning_rate=0.12595564357437955, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=486,
clf__subsample=0.7226952598517187, preprocessor__text__max_features=8042,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.1s
[CV] END clf__colsample_bytree=0.9484910303350835,
clf__learning_rate=0.09969365727150849, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=319,
clf__subsample=0.7750768606862747, preprocessor__text__max_features=7557,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.5s
[CV] END clf__colsample_bytree=0.9484910303350835,
clf__learning_rate=0.09969365727150849, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=319,
clf__subsample=0.7750768606862747, preprocessor__text__max_features=7557,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.9s
[CV] END clf__colsample_bytree=0.8133866208111599,
clf__learning_rate=0.08467851045238292, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=692,
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clf__subsample=0.7536075462125238, preprocessor__text__max_features=3983,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.3s
[CV] END clf__colsample_bytree=0.8133866208111599,
clf__learning_rate=0.08467851045238292, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=692,
clf__subsample=0.7536075462125238, preprocessor__text__max_features=3983,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.7592809527107169,
clf__learning_rate=0.04933273799319528, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=516,
clf__subsample=0.8561167336522866, preprocessor__text__max_features=7496,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.2s
[CV] END clf__colsample_bytree=0.8133866208111599,
clf__learning_rate=0.08467851045238292, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=692,
clf__subsample=0.7536075462125238, preprocessor__text__max_features=3983,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.0s
[CV] END clf__colsample_bytree=0.7592809527107169,
clf__learning_rate=0.04933273799319528, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=516,
clf__subsample=0.8561167336522866, preprocessor__text__max_features=7496,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.0s
[CV] END clf__colsample_bytree=0.9270884351953221,
clf__learning_rate=0.03329066805195438, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=839,
clf__subsample=0.996420895833066, preprocessor__text__max_features=3356,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 26.7s
[CV] END clf__colsample_bytree=0.8463949997257826,
clf__learning_rate=0.0774125555146648, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=556,
clf__subsample=0.9652355791256222, preprocessor__text__max_features=4441,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.4s
[CV] END clf__colsample_bytree=0.8159339264364223,
clf__learning_rate=0.09597997627139397, clf__max_depth=3,

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clf__min_child_weight=4, clf__n_estimators=473,
clf__subsample=0.8325959326184793, preprocessor__text__max_features=6413,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.8159339264364223,
clf__learning_rate=0.09597997627139397, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=473,
clf__subsample=0.8325959326184793, preprocessor__text__max_features=6413,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.6s
[CV] END clf__colsample_bytree=0.8463949997257826,
clf__learning_rate=0.0774125555146648, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=556,
clf__subsample=0.9652355791256222, preprocessor__text__max_features=4441,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.0s
[CV] END clf__colsample_bytree=0.9270884351953221,
clf__learning_rate=0.03329066805195438, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=839,
clf__subsample=0.996420895833066, preprocessor__text__max_features=3356,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 29.1s
[CV] END clf__colsample_bytree=0.7592809527107169,
clf__learning_rate=0.04933273799319528, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=516,
clf__subsample=0.8561167336522866, preprocessor__text__max_features=7496,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.9s
[CV] END clf__colsample_bytree=0.8159339264364223,
clf__learning_rate=0.09597997627139397, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=473,
clf__subsample=0.8325959326184793, preprocessor__text__max_features=6413,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.8s
[CV] END clf__colsample_bytree=0.8463949997257826,
clf__learning_rate=0.0774125555146648, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=556,
clf__subsample=0.9652355791256222, preprocessor__text__max_features=4441,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.3s
[CV] END clf__colsample_bytree=0.9270884351953221,

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clf__learning_rate=0.03329066805195438, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=839,
clf__subsample=0.996420895833066, preprocessor__text__max_features=3356,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 30.5s
[CV] END clf__colsample_bytree=0.7389213550745316,
clf__learning_rate=0.037484337031412275, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=643,
clf__subsample=0.9625268013483101, preprocessor__text__max_features=7885,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.0s
[CV] END clf__colsample_bytree=0.6291158379907235,
clf__learning_rate=0.07104022047278712, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=488,
clf__subsample=0.8462974288664168, preprocessor__text__max_features=5353,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.3s
[CV] END clf__colsample_bytree=0.8235678726224763,
clf__learning_rate=0.1093209238339085, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=429,
clf__subsample=0.8895340275275929, preprocessor__text__max_features=5453,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.5s
[CV] END clf__colsample_bytree=0.7389213550745316,
clf__learning_rate=0.037484337031412275, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=643,
clf__subsample=0.9625268013483101, preprocessor__text__max_features=7885,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 16.8s
[CV] END clf__colsample_bytree=0.8235678726224763,
clf__learning_rate=0.1093209238339085, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=429,
clf__subsample=0.8895340275275929, preprocessor__text__max_features=5453,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.1s
[CV] END clf__colsample_bytree=0.9109344628706284,
clf__learning_rate=0.057284167508776004, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=377,
clf__subsample=0.7752721103937789, preprocessor__text__max_features=3007,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.3s

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[CV] END clf__colsample_bytree=0.8235678726224763,
clf__learning_rate=0.1093209238339085, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=429,
clf__subsample=0.8895340275275929, preprocessor__text__max_features=5453,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.0s
[CV] END clf__colsample_bytree=0.6291158379907235,
clf__learning_rate=0.07104022047278712, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=488,
clf__subsample=0.8462974288664168, preprocessor__text__max_features=5353,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.7s
[CV] END clf__colsample_bytree=0.6291158379907235,
clf__learning_rate=0.07104022047278712, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=488,
clf__subsample=0.8462974288664168, preprocessor__text__max_features=5353,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.8s
[CV] END clf__colsample_bytree=0.9109344628706284,
clf__learning_rate=0.057284167508776004, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=377,
clf__subsample=0.7752721103937789, preprocessor__text__max_features=3007,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.0s
[CV] END clf__colsample_bytree=0.7389213550745316,
clf__learning_rate=0.037484337031412275, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=643,
clf__subsample=0.9625268013483101, preprocessor__text__max_features=7885,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 17.4s
[CV] END clf__colsample_bytree=0.6551136878252468,
clf__learning_rate=0.13481762024835164, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=697,
clf__subsample=0.7345256314899172, preprocessor__text__max_features=7712,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.0s
[CV] END clf__colsample_bytree=0.6551136878252468,
clf__learning_rate=0.13481762024835164, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=697,
clf__subsample=0.7345256314899172, preprocessor__text__max_features=7712,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

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total time= 5.9s
[CV] END clf__colsample_bytree=0.9026379626159607,
clf__learning_rate=0.11132592601381143, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=684,
clf__subsample=0.7642356965603466, preprocessor__text__max_features=7093,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.6s
[CV] END clf__colsample_bytree=0.7074417316639261,
clf__learning_rate=0.1467184944136293, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=654,
clf__subsample=0.8969639700762431, preprocessor__text__max_features=4499,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.5s
[CV] END clf__colsample_bytree=0.6003923940166535,
clf__learning_rate=0.03790617286061845, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=728,
clf__subsample=0.9123602891490166, preprocessor__text__max_features=4288,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.6s
[CV] END clf__colsample_bytree=0.6551136878252468,
clf__learning_rate=0.13481762024835164, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=697,
clf__subsample=0.7345256314899172, preprocessor__text__max_features=7712,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.1s
[CV] END clf__colsample_bytree=0.9109344628706284,
clf__learning_rate=0.057284167508776004, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=377,
clf__subsample=0.7752721103937789, preprocessor__text__max_features=3007,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.0s
[CV] END clf__colsample_bytree=0.7074417316639261,
clf__learning_rate=0.1467184944136293, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=654,
clf__subsample=0.8969639700762431, preprocessor__text__max_features=4499,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.3s
[CV] END clf__colsample_bytree=0.6003923940166535,
clf__learning_rate=0.03790617286061845, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=728,
clf__subsample=0.9123602891490166, preprocessor__text__max_features=4288,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.1s
[CV] END clf__colsample_bytree=0.7074417316639261,
clf__learning_rate=0.1467184944136293, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=654,
clf__subsample=0.8969639700762431, preprocessor__text__max_features=4499,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.7s
[CV] END clf__colsample_bytree=0.9026379626159607,
clf__learning_rate=0.11132592601381143, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=684,
clf__subsample=0.7642356965603466, preprocessor__text__max_features=7093,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.4s
[CV] END clf__colsample_bytree=0.9026379626159607,
clf__learning_rate=0.11132592601381143, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=684,
clf__subsample=0.7642356965603466, preprocessor__text__max_features=7093,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.3s
[CV] END clf__colsample_bytree=0.6155586485118699,
clf__learning_rate=0.09276657616438277, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=673,
clf__subsample=0.9303490336500598, preprocessor__text__max_features=7499,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.0s
[CV] END clf__colsample_bytree=0.6600985458678741,
clf__learning_rate=0.09635122175297685, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=888,
clf__subsample=0.756690975359933, preprocessor__text__max_features=3793,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.8s
[CV] END clf__colsample_bytree=0.6600985458678741,
clf__learning_rate=0.09635122175297685, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=888,
clf__subsample=0.756690975359933, preprocessor__text__max_features=3793,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.1s
[CV] END clf__colsample_bytree=0.6003923940166535,
clf__learning_rate=0.03790617286061845, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=728,
clf__subsample=0.9123602891490166, preprocessor__text__max_features=4288,
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preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.5s
[CV] END clf__colsample_bytree=0.8612217539758291,
clf__learning_rate=0.10141022606515696, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=326,
clf__subsample=0.8083874250268488, preprocessor__text__max_features=8050,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.6s
[CV] END clf__colsample_bytree=0.722028849425413,
clf__learning_rate=0.14793896137909612, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=616,
clf__subsample=0.850434866522143, preprocessor__text__max_features=3649,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.3s
[CV] END clf__colsample_bytree=0.722028849425413,
clf__learning_rate=0.14793896137909612, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=616,
clf__subsample=0.850434866522143, preprocessor__text__max_features=3649,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.4s
[CV] END clf__colsample_bytree=0.6600985458678741,
clf__learning_rate=0.09635122175297685, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=888,
clf__subsample=0.756690975359933, preprocessor__text__max_features=3793,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.0s
[CV] END clf__colsample_bytree=0.8612217539758291,
clf__learning_rate=0.10141022606515696, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=326,
clf__subsample=0.8083874250268488, preprocessor__text__max_features=8050,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.9s
[CV] END clf__colsample_bytree=0.8612217539758291,
clf__learning_rate=0.10141022606515696, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=326,
clf__subsample=0.8083874250268488, preprocessor__text__max_features=8050,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.2s
[CV] END clf__colsample_bytree=0.722028849425413,
clf__learning_rate=0.14793896137909612, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=616,

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clf__subsample=0.850434866522143, preprocessor__text__max_features=3649,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.1s
[CV] END clf__colsample_bytree=0.8220125560436686,
clf__learning_rate=0.08014081450800548, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=350,
clf__subsample=0.7731593902295226, preprocessor__text__max_features=6070,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.8s
[CV] END clf__colsample_bytree=0.6155586485118699,
clf__learning_rate=0.09276657616438277, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=673,
clf__subsample=0.9303490336500598, preprocessor__text__max_features=7499,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 15.9s
[CV] END clf__colsample_bytree=0.87491365345147,
clf__learning_rate=0.07462839599741818, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=385,
clf__subsample=0.8008170283624798, preprocessor__text__max_features=8118,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.5s
[CV] END clf__colsample_bytree=0.6184273683507913,
clf__learning_rate=0.08998159605392421, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=488,
clf__subsample=0.8612277618849954, preprocessor__text__max_features=4608,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.4s
[CV] END clf__colsample_bytree=0.6155586485118699,
clf__learning_rate=0.09276657616438277, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=673,
clf__subsample=0.9303490336500598, preprocessor__text__max_features=7499,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 16.7s
[CV] END clf__colsample_bytree=0.8556691403750027,
clf__learning_rate=0.09843426265377142, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=396,
clf__subsample=0.716411399255179, preprocessor__text__max_features=5798,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.8s
[CV] END clf__colsample_bytree=0.8220125560436686,
clf__learning_rate=0.08014081450800548, clf__max_depth=4,

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clf__min_child_weight=3, clf__n_estimators=350,
clf__subsample=0.7731593902295226, preprocessor__text__max_features=6070,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.7s
[CV] END clf__colsample_bytree=0.6184273683507913,
clf__learning_rate=0.08998159605392421, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=488,
clf__subsample=0.8612277618849954, preprocessor__text__max_features=4608,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.8220125560436686,
clf__learning_rate=0.08014081450800548, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=350,
clf__subsample=0.7731593902295226, preprocessor__text__max_features=6070,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.8s
[CV] END clf__colsample_bytree=0.87491365345147,
clf__learning_rate=0.07462839599741818, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=385,
clf__subsample=0.8008170283624798, preprocessor__text__max_features=8118,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.5s
[CV] END clf__colsample_bytree=0.87491365345147,
clf__learning_rate=0.07462839599741818, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=385,
clf__subsample=0.8008170283624798, preprocessor__text__max_features=8118,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.5s
[CV] END clf__colsample_bytree=0.8556691403750027,
clf__learning_rate=0.09843426265377142, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=396,
clf__subsample=0.716411399255179, preprocessor__text__max_features=5798,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.6s
[CV] END clf__colsample_bytree=0.6918451289368462,
clf__learning_rate=0.06341420873913434, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=502,
clf__subsample=0.7489470590838211, preprocessor__text__max_features=5573,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.5s
[CV] END clf__colsample_bytree=0.8556691403750027,

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clf__learning_rate=0.09843426265377142, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=396,
clf__subsample=0.716411399255179, preprocessor__text__max_features=5798,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.0s
[CV] END clf__colsample_bytree=0.6184273683507913,
clf__learning_rate=0.08998159605392421, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=488,
clf__subsample=0.8612277618849954, preprocessor__text__max_features=4608,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.4s
[CV] END clf__colsample_bytree=0.6918451289368462,
clf__learning_rate=0.06341420873913434, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=502,
clf__subsample=0.7489470590838211, preprocessor__text__max_features=5573,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.8s
[CV] END clf__colsample_bytree=0.6918451289368462,
clf__learning_rate=0.06341420873913434, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=502,
clf__subsample=0.7489470590838211, preprocessor__text__max_features=5573,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.4s
[CV] END clf__colsample_bytree=0.9920592316679827,
clf__learning_rate=0.10981045063870538, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=418,
clf__subsample=0.8399003911715401, preprocessor__text__max_features=7583,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.7012952935118602,
clf__learning_rate=0.06336114844997157, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=828,
clf__subsample=0.7650754479846016, preprocessor__text__max_features=8802,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.8s
[CV] END clf__colsample_bytree=0.9920592316679827,
clf__learning_rate=0.10981045063870538, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=418,
clf__subsample=0.8399003911715401, preprocessor__text__max_features=7583,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.4s

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[CV] END clf__colsample_bytree=0.9920592316679827,
clf__learning_rate=0.10981045063870538, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=418,
clf__subsample=0.8399003911715401, preprocessor__text__max_features=7583,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.8s
[CV] END clf__colsample_bytree=0.6349161856824151,
clf__learning_rate=0.14205564889024203, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=565,
clf__subsample=0.7452574876486582, preprocessor__text__max_features=8781,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.9s
[CV] END clf__colsample_bytree=0.7012952935118602,
clf__learning_rate=0.06336114844997157, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=828,
clf__subsample=0.7650754479846016, preprocessor__text__max_features=8802,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 21.1s
[CV] END clf__colsample_bytree=0.9317446230119276,
clf__learning_rate=0.056360192574374045, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=465,
clf__subsample=0.7515970910241198, preprocessor__text__max_features=8658,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 16.7s
[CV] END clf__colsample_bytree=0.7012952935118602,
clf__learning_rate=0.06336114844997157, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=828,
clf__subsample=0.7650754479846016, preprocessor__text__max_features=8802,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 25.8s
[CV] END clf__colsample_bytree=0.9317446230119276,
clf__learning_rate=0.056360192574374045, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=465,
clf__subsample=0.7515970910241198, preprocessor__text__max_features=8658,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.3s
[CV] END clf__colsample_bytree=0.7472601695005552,
clf__learning_rate=0.08043176737852252, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=414,
clf__subsample=0.917028974157324, preprocessor__text__max_features=6829,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 4.5s
[CV] END clf__colsample_bytree=0.7542660862418056,
clf__learning_rate=0.08473109552014443, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=654,
clf__subsample=0.7186870008732169, preprocessor__text__max_features=7891,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.2s
[CV] END clf__colsample_bytree=0.7472601695005552,
clf__learning_rate=0.08043176737852252, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=414,
clf__subsample=0.917028974157324, preprocessor__text__max_features=6829,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.7204205461259415,
clf__learning_rate=0.03338169463966691, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=414,
clf__subsample=0.9897321223306188, preprocessor__text__max_features=4492,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.3s
[CV] END clf__colsample_bytree=0.7204205461259415,
clf__learning_rate=0.03338169463966691, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=414,
clf__subsample=0.9897321223306188, preprocessor__text__max_features=4492,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.8s
[CV] END clf__colsample_bytree=0.7204205461259415,
clf__learning_rate=0.03338169463966691, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=414,
clf__subsample=0.9897321223306188, preprocessor__text__max_features=4492,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 14.0s
[CV] END clf__colsample_bytree=0.8857159422026406,
clf__learning_rate=0.03351142084092161, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=473,
clf__subsample=0.7746530729551971, preprocessor__text__max_features=7510,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 21.9s
[CV] END clf__colsample_bytree=0.8857159422026406,
clf__learning_rate=0.03351142084092161, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=473,
clf__subsample=0.7746530729551971, preprocessor__text__max_features=7510,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 22.5s
[CV] END clf__colsample_bytree=0.8857159422026406,
clf__learning_rate=0.03351142084092161, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=473,
clf__subsample=0.7746530729551971, preprocessor__text__max_features=7510,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 22.9s
[CV] END clf__colsample_bytree=0.7542660862418056,
clf__learning_rate=0.08473109552014443, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=654,
clf__subsample=0.7186870008732169, preprocessor__text__max_features=7891,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 24.0s
[CV] END clf__colsample_bytree=0.6349161856824151,
clf__learning_rate=0.14205564889024203, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=565,
clf__subsample=0.7452574876486582, preprocessor__text__max_features=8781,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.6s
[CV] END clf__colsample_bytree=0.7472601695005552,
clf__learning_rate=0.08043176737852252, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=414,
clf__subsample=0.917028974157324, preprocessor__text__max_features=6829,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.1s
[CV] END clf__colsample_bytree=0.7542660862418056,
clf__learning_rate=0.08473109552014443, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=654,
clf__subsample=0.7186870008732169, preprocessor__text__max_features=7891,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 25.0s
[CV] END clf__colsample_bytree=0.9317446230119276,
clf__learning_rate=0.056360192574374045, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=465,
clf__subsample=0.7515970910241198, preprocessor__text__max_features=8658,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 26.5s
[CV] END clf__colsample_bytree=0.6349161856824151,
clf__learning_rate=0.14205564889024203, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=565,
clf__subsample=0.7452574876486582, preprocessor__text__max_features=8781,

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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 19.5s
[CV] END clf__colsample_bytree=0.6060074105622628,
clf__learning_rate=0.06360620808812979, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=415,
clf__subsample=0.8903146768348923, preprocessor__text__max_features=8185,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.2s
[CV] END clf__colsample_bytree=0.9709329408888423,
clf__learning_rate=0.04315213838158992, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=522,
clf__subsample=0.8755159733473943, preprocessor__text__max_features=7076,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.4s
[CV] END clf__colsample_bytree=0.6060074105622628,
clf__learning_rate=0.06360620808812979, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=415,
clf__subsample=0.8903146768348923, preprocessor__text__max_features=8185,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.8s
[CV] END clf__colsample_bytree=0.7689699594605173,
clf__learning_rate=0.08303195278364922, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=732,
clf__subsample=0.7769716912975105, preprocessor__text__max_features=8803,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.2s
[CV] END clf__colsample_bytree=0.6060074105622628,
clf__learning_rate=0.06360620808812979, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=415,
clf__subsample=0.8903146768348923, preprocessor__text__max_features=8185,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.7954983818629348,
clf__learning_rate=0.08711467132144637, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=320,
clf__subsample=0.726150822907893, preprocessor__text__max_features=3284,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.4s
[CV] END clf__colsample_bytree=0.6532934241860511,
clf__learning_rate=0.11247994317172046, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=647,
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clf__subsample=0.9569261424526387, preprocessor__text__max_features=3031,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.0s
[CV] END clf__colsample_bytree=0.7954983818629348,
clf__learning_rate=0.08711467132144637, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=320,
clf__subsample=0.726150822907893, preprocessor__text__max_features=3284,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.3s
[CV] END clf__colsample_bytree=0.7954983818629348,
clf__learning_rate=0.08711467132144637, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=320,
clf__subsample=0.726150822907893, preprocessor__text__max_features=3284,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.7s
[CV] END clf__colsample_bytree=0.7689699594605173,
clf__learning_rate=0.08303195278364922, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=732,
clf__subsample=0.7769716912975105, preprocessor__text__max_features=8803,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.7s
[CV] END clf__colsample_bytree=0.8364171616061896,
clf__learning_rate=0.05422820480802619, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=736,
clf__subsample=0.9318743941451237, preprocessor__text__max_features=3089,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.2s
[CV] END clf__colsample_bytree=0.7689699594605173,
clf__learning_rate=0.08303195278364922, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=732,
clf__subsample=0.7769716912975105, preprocessor__text__max_features=8803,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.0s
[CV] END clf__colsample_bytree=0.9709329408888423,
clf__learning_rate=0.04315213838158992, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=522,
clf__subsample=0.8755159733473943, preprocessor__text__max_features=7076,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.5s
[CV] END clf__colsample_bytree=0.6532934241860511,
clf__learning_rate=0.11247994317172046, clf__max_depth=4,

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clf__min_child_weight=1, clf__n_estimators=647,
clf__subsample=0.9569261424526387, preprocessor__text__max_features=3031,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.8364171616061896,
clf__learning_rate=0.05422820480802619, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=736,
clf__subsample=0.9318743941451237, preprocessor__text__max_features=3089,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.2s
[CV] END clf__colsample_bytree=0.8364171616061896,
clf__learning_rate=0.05422820480802619, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=736,
clf__subsample=0.9318743941451237, preprocessor__text__max_features=3089,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.3s
[CV] END clf__colsample_bytree=0.9709329408888423,
clf__learning_rate=0.04315213838158992, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=522,
clf__subsample=0.8755159733473943, preprocessor__text__max_features=7076,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 17.6s
[CV] END clf__colsample_bytree=0.8088262360862587,
clf__learning_rate=0.06772551453441217, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=409,
clf__subsample=0.7673933807925334, preprocessor__text__max_features=7252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.9630040074151015,
clf__learning_rate=0.07926607957637587, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=581,
clf__subsample=0.7625053789890986, preprocessor__text__max_features=8941,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 21.4s
[CV] END clf__colsample_bytree=0.8088262360862587,
clf__learning_rate=0.06772551453441217, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=409,
clf__subsample=0.7673933807925334, preprocessor__text__max_features=7252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.8s
[CV] END clf__colsample_bytree=0.6532934241860511,

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clf__learning_rate=0.11247994317172046, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=647,
clf__subsample=0.9569261424526387, preprocessor__text__max_features=3031,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.0s
[CV] END clf__colsample_bytree=0.8163444022542674,
clf__learning_rate=0.11630573057898422, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=717,
clf__subsample=0.9855820977484651, preprocessor__text__max_features=4852,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.8s
[CV] END clf__colsample_bytree=0.9630040074151015,
clf__learning_rate=0.07926607957637587, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=581,
clf__subsample=0.7625053789890986, preprocessor__text__max_features=8941,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 24.6s
[CV] END clf__colsample_bytree=0.9630040074151015,
clf__learning_rate=0.07926607957637587, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=581,
clf__subsample=0.7625053789890986, preprocessor__text__max_features=8941,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 25.4s
[CV] END clf__colsample_bytree=0.8163444022542674,
clf__learning_rate=0.11630573057898422, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=717,
clf__subsample=0.9855820977484651, preprocessor__text__max_features=4852,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.9s
[CV] END clf__colsample_bytree=0.8163444022542674,
clf__learning_rate=0.11630573057898422, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=717,
clf__subsample=0.9855820977484651, preprocessor__text__max_features=4852,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.8088262360862587,
clf__learning_rate=0.06772551453441217, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=409,
clf__subsample=0.7673933807925334, preprocessor__text__max_features=7252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.9s

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[CV] END clf__colsample_bytree=0.9478116057535366,
clf__learning_rate=0.11802088667862885, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=385,
clf__subsample=0.9145538903157774, preprocessors__text__max_features=5897,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessors__text__sublinear_tf=True;
total time= 6.6s
[CV] END clf__colsample_bytree=0.7232164428617069,
clf__learning_rate=0.060751836469160526, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=893,
clf__subsample=0.786817522254237, preprocessors__text__max_features=8373,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 15.1s
[CV] END clf__colsample_bytree=0.9478116057535366,
clf__learning_rate=0.11802088667862885, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=385,
clf__subsample=0.9145538903157774, preprocessors__text__max_features=5897,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessors__text__sublinear_tf=True;
total time= 8.8s
[CV] END clf__colsample_bytree=0.6078485658297951,
clf__learning_rate=0.13945655995897, clf__max_depth=5, clf__min_child_weight=5,
clf__n_estimators=443, clf__subsample=0.9333459678424322,
preprocessor__text__max_features=5411, preprocessors__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessors__text__smooth_idf=True,
preprocessor__text__sublinear_tf=False; total time= 8.5s
[CV] END clf__colsample_bytree=0.7232164428617069,
clf__learning_rate=0.060751836469160526, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=893,
clf__subsample=0.786817522254237, preprocessors__text__max_features=8373,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 16.8s
[CV] END clf__colsample_bytree=0.9478116057535366,
clf__learning_rate=0.11802088667862885, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=385,
clf__subsample=0.9145538903157774, preprocessors__text__max_features=5897,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessors__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.6078485658297951,
clf__learning_rate=0.13945655995897, clf__max_depth=5, clf__min_child_weight=5,
clf__n_estimators=443, clf__subsample=0.9333459678424322,
preprocessor__text__max_features=5411, preprocessors__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessors__text__smooth_idf=True,
preprocessor__text__sublinear_tf=False; total time= 6.7s
[CV] END clf__colsample_bytree=0.7232164428617069,
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clf__learning_rate=0.060751836469160526, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=893,
clf__subsample=0.786817522254237, preprocessor__text__max_features=8373,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.5s
[CV] END clf__colsample_bytree=0.6078485658297951,
clf__learning_rate=0.13945655995897, clf__max_depth=5, clf__min_child_weight=5,
clf__n_estimators=443, clf__subsample=0.9333459678424322,
preprocessor__text__max_features=5411, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=False; total time= 7.2s
[CV] END clf__colsample_bytree=0.8946796960380157,
clf__learning_rate=0.09876660743870949, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=826,
clf__subsample=0.855259562831885, preprocessor__text__max_features=8737,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.0s
[CV] END clf__colsample_bytree=0.7495062737701422,
clf__learning_rate=0.03784256755139523, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=656,
clf__subsample=0.7770838238530624, preprocessor__text__max_features=3160,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.8s
[CV] END clf__colsample_bytree=0.7495062737701422,
clf__learning_rate=0.03784256755139523, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=656,
clf__subsample=0.7770838238530624, preprocessor__text__max_features=3160,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.6s
[CV] END clf__colsample_bytree=0.8680643545047642,
clf__learning_rate=0.11163438942253617, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=732,
clf__subsample=0.9824002950378118, preprocessor__text__max_features=7809,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 20.1s
[CV] END clf__colsample_bytree=0.9879632244930775,
clf__learning_rate=0.07941087810741948, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=691,
clf__subsample=0.9073152986218445, preprocessor__text__max_features=6310,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.6s
[CV] END clf__colsample_bytree=0.8946796960380157,
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clf__learning_rate=0.09876660743870949, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=826,
clf__subsample=0.855259562831885, preprocessor__text__max_features=8737,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.7495062737701422,
clf__learning_rate=0.03784256755139523, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=656,
clf__subsample=0.7770838238530624, preprocessor__text__max_features=3160,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.4s
[CV] END clf__colsample_bytree=0.9879632244930775,
clf__learning_rate=0.07941087810741948, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=691,
clf__subsample=0.9073152986218445, preprocessor__text__max_features=6310,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 17.1s
[CV] END clf__colsample_bytree=0.8680643545047642,
clf__learning_rate=0.11163438942253617, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=732,
clf__subsample=0.9824002950378118, preprocessor__text__max_features=7809,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 22.0s
[CV] END clf__colsample_bytree=0.6761240797757777,
clf__learning_rate=0.08545344455283949, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=687,
clf__subsample=0.9436299425115315, preprocessor__text__max_features=7668,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.0s
[CV] END clf__colsample_bytree=0.8680643545047642,
clf__learning_rate=0.11163438942253617, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=732,
clf__subsample=0.9824002950378118, preprocessor__text__max_features=7809,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 23.4s
[CV] END clf__colsample_bytree=0.9879632244930775,
clf__learning_rate=0.07941087810741948, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=691,
clf__subsample=0.9073152986218445, preprocessor__text__max_features=6310,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 17.7s

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[CV] END clf__colsample_bytree=0.6098411415452953,
clf__learning_rate=0.07174991303397389, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=402,
clf__subsample=0.8840141360259299, preprocessors__text__max_features=7953,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 4.0s
[CV] END clf__colsample_bytree=0.6761240797757777,
clf__learning_rate=0.08545344455283949, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=687,
clf__subsample=0.9436299425115315, preprocessors__text__max_features=7668,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 2),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 7.2s
[CV] END clf__colsample_bytree=0.6098411415452953,
clf__learning_rate=0.07174991303397389, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=402,
clf__subsample=0.8840141360259299, preprocessors__text__max_features=7953,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 5.2s
[CV] END clf__colsample_bytree=0.6761240797757777,
clf__learning_rate=0.08545344455283949, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=687,
clf__subsample=0.9436299425115315, preprocessors__text__max_features=7668,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 2),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 7.1s
[CV] END clf__colsample_bytree=0.8946796960380157,
clf__learning_rate=0.09876660743870949, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=826,
clf__subsample=0.855259562831885, preprocessors__text__max_features=8737,
preprocessors__text__min_df=2, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 11.5s
[CV] END clf__colsample_bytree=0.6098411415452953,
clf__learning_rate=0.07174991303397389, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=402,
clf__subsample=0.8840141360259299, preprocessors__text__max_features=7953,
preprocessors__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessors__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 7.2s
[CV] END clf__colsample_bytree=0.8745970729590713,
clf__learning_rate=0.03892392833717612, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=372,
clf__subsample=0.859007556250251, preprocessors__text__max_features=7855,
preprocessors__text__min_df=3, preprocessors__text__ngram_range=(1, 2),
preprocessors__text__smooth_idf=True, preprocessors__text__sublinear_tf=True;

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total time= 7.2s
[CV] END clf__colsample_bytree=0.8745970729590713,
clf__learning_rate=0.03892392833717612, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=372,
clf__subsample=0.859007556250251, preprocessor__text__max_features=7855,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.8s
[CV] END clf__colsample_bytree=0.8745970729590713,
clf__learning_rate=0.03892392833717612, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=372,
clf__subsample=0.859007556250251, preprocessor__text__max_features=7855,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.0s
[CV] END clf__colsample_bytree=0.997688292367398,
clf__learning_rate=0.13305138524744456, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=882,
clf__subsample=0.8469454443736529, preprocessor__text__max_features=5233,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.0s
[CV] END clf__colsample_bytree=0.603918336857507,
clf__learning_rate=0.1215483363277221, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=422,
clf__subsample=0.7385595178163356, preprocessor__text__max_features=7231,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.6s
[CV] END clf__colsample_bytree=0.603918336857507,
clf__learning_rate=0.1215483363277221, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=422,
clf__subsample=0.7385595178163356, preprocessor__text__max_features=7231,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.7s
[CV] END clf__colsample_bytree=0.997688292367398,
clf__learning_rate=0.13305138524744456, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=882,
clf__subsample=0.8469454443736529, preprocessor__text__max_features=5233,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.5s
[CV] END clf__colsample_bytree=0.603918336857507,
clf__learning_rate=0.1215483363277221, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=422,
clf__subsample=0.7385595178163356, preprocessor__text__max_features=7231,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.8s
[CV] END clf__colsample_bytree=0.8606108872930247,
clf__learning_rate=0.05407252219047824, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=671,
clf__subsample=0.9624130599201781, preprocessor__text__max_features=5978,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.3s
[CV] END clf__colsample_bytree=0.9367066689502414,
clf__learning_rate=0.10122584681273776, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=834,
clf__subsample=0.8192495621557306, preprocessor__text__max_features=5348,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 19.7s
[CV] END clf__colsample_bytree=0.997688292367398,
clf__learning_rate=0.13305138524744456, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=882,
clf__subsample=0.8469454443736529, preprocessor__text__max_features=5233,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 21.4s
[CV] END clf__colsample_bytree=0.8606108872930247,
clf__learning_rate=0.05407252219047824, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=671,
clf__subsample=0.9624130599201781, preprocessor__text__max_features=5978,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.7s
[CV] END clf__colsample_bytree=0.9367066689502414,
clf__learning_rate=0.10122584681273776, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=834,
clf__subsample=0.8192495621557306, preprocessor__text__max_features=5348,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 24.3s
[CV] END clf__colsample_bytree=0.8606108872930247,
clf__learning_rate=0.05407252219047824, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=671,
clf__subsample=0.9624130599201781, preprocessor__text__max_features=5978,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.6s
[CV] END clf__colsample_bytree=0.9911307499269901,
clf__learning_rate=0.10799607671287836, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=369,
clf__subsample=0.9150415408585109, preprocessor__text__max_features=6384,
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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.2s
[CV] END clf__colsample_bytree=0.8493420424011346,
clf__learning_rate=0.1394324484098713, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=560,
clf__subsample=0.7172220105014471, preprocessor__text__max_features=7078,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 18.1s
[CV] END clf__colsample_bytree=0.9827157066874314,
clf__learning_rate=0.041079119463372976, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=884,
clf__subsample=0.7574398471173919, preprocessor__text__max_features=5352,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 30.7s
[CV] END clf__colsample_bytree=0.9911307499269901,
clf__learning_rate=0.10799607671287836, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=369,
clf__subsample=0.9150415408585109, preprocessor__text__max_features=6384,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.3s
[CV] END clf__colsample_bytree=0.9367066689502414,
clf__learning_rate=0.10122584681273776, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=834,
clf__subsample=0.8192495621557306, preprocessor__text__max_features=5348,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 30.5s
[CV] END clf__colsample_bytree=0.9827157066874314,
clf__learning_rate=0.041079119463372976, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=884,
clf__subsample=0.7574398471173919, preprocessor__text__max_features=5352,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 33.2s
[CV] END clf__colsample_bytree=0.8493420424011346,
clf__learning_rate=0.1394324484098713, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=560,
clf__subsample=0.7172220105014471, preprocessor__text__max_features=7078,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 26.7s
[CV] END clf__colsample_bytree=0.6794740063197147,
clf__learning_rate=0.05430893154698854, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=745,

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clf__subsample=0.8526174417002658, preprocessor__text__max_features=5850,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.2s
[CV] END clf__colsample_bytree=0.9827157066874314,
clf__learning_rate=0.041079119463372976, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=884,
clf__subsample=0.7574398471173919, preprocessor__text__max_features=5352,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 36.1s
[CV] END clf__colsample_bytree=0.6794740063197147,
clf__learning_rate=0.05430893154698854, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=745,
clf__subsample=0.8526174417002658, preprocessor__text__max_features=5850,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.1s
[CV] END clf__colsample_bytree=0.8493420424011346,
clf__learning_rate=0.1394324484098713, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=560,
clf__subsample=0.7172220105014471, preprocessor__text__max_features=7078,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 26.0s
[CV] END clf__colsample_bytree=0.9911307499269901,
clf__learning_rate=0.10799607671287836, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=369,
clf__subsample=0.9150415408585109, preprocessor__text__max_features=6384,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 18.4s
[CV] END clf__colsample_bytree=0.6271458558807699,
clf__learning_rate=0.07889757874548989, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=830,
clf__subsample=0.8564808691992312, preprocessor__text__max_features=8323,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.2s
[CV] END clf__colsample_bytree=0.9948731921824401,
clf__learning_rate=0.10428352298044344, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=314,
clf__subsample=0.840371420734821, preprocessor__text__max_features=7704,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.4s
[CV] END clf__colsample_bytree=0.6794740063197147,
clf__learning_rate=0.05430893154698854, clf__max_depth=5,

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clf__min_child_weight=4, clf__n_estimators=745,
clf__subsample=0.8526174417002658, preprocessor__text__max_features=5850,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.8s
[CV] END clf__colsample_bytree=0.6271458558807699,
clf__learning_rate=0.07889757874548989, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=830,
clf__subsample=0.8564808691992312, preprocessor__text__max_features=8323,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 18.6s
[CV] END clf__colsample_bytree=0.9948731921824401,
clf__learning_rate=0.10428352298044344, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=314,
clf__subsample=0.840371420734821, preprocessor__text__max_features=7704,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.6s
[CV] END clf__colsample_bytree=0.9948731921824401,
clf__learning_rate=0.10428352298044344, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=314,
clf__subsample=0.840371420734821, preprocessor__text__max_features=7704,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.1s
[CV] END clf__colsample_bytree=0.6099953156083975,
clf__learning_rate=0.10822351240058403, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=370,
clf__subsample=0.8770700631341264, preprocessor__text__max_features=7887,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.2s
[CV] END clf__colsample_bytree=0.6099953156083975,
clf__learning_rate=0.10822351240058403, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=370,
clf__subsample=0.8770700631341264, preprocessor__text__max_features=7887,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.6430226694524968,
clf__learning_rate=0.0451136114363547, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=356,
clf__subsample=0.8557259781160386, preprocessor__text__max_features=4347,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.7s
[CV] END clf__colsample_bytree=0.6271458558807699,

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clf__learning_rate=0.07889757874548989, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=830,
clf__subsample=0.8564808691992312, preprocessor__text__max_features=8323,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 20.1s
[CV] END clf__colsample_bytree=0.9922096564145017,
clf__learning_rate=0.12414748246687247, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=826,
clf__subsample=0.9741709048300733, preprocessor__text__max_features=4293,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.2s
[CV] END clf__colsample_bytree=0.6099953156083975,
clf__learning_rate=0.10822351240058403, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=370,
clf__subsample=0.8770700631341264, preprocessor__text__max_features=7887,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.5s
[CV] END clf__colsample_bytree=0.677372470371314,
clf__learning_rate=0.07902643375391344, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=327,
clf__subsample=0.8804291849886425, preprocessor__text__max_features=7263,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.6s
[CV] END clf__colsample_bytree=0.9922096564145017,
clf__learning_rate=0.12414748246687247, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=826,
clf__subsample=0.9741709048300733, preprocessor__text__max_features=4293,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 16.2s
[CV] END clf__colsample_bytree=0.9922096564145017,
clf__learning_rate=0.12414748246687247, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=826,
clf__subsample=0.9741709048300733, preprocessor__text__max_features=4293,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.4s
[CV] END clf__colsample_bytree=0.6430226694524968,
clf__learning_rate=0.0451136114363547, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=356,
clf__subsample=0.8557259781160386, preprocessor__text__max_features=4347,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.7s

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[CV] END clf__colsample_bytree=0.677372470371314,
clf__learning_rate=0.07902643375391344, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=327,
clf__subsample=0.8804291849886425, preprocessor__text__max_features=7263,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.5s
[CV] END clf__colsample_bytree=0.6430226694524968,
clf__learning_rate=0.0451136114363547, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=356,
clf__subsample=0.8557259781160386, preprocessor__text__max_features=4347,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.2s
[CV] END clf__colsample_bytree=0.9419329206614571,
clf__learning_rate=0.12059352580412477, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=532,
clf__subsample=0.8509684609880367, preprocessor__text__max_features=3966,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.8s
[CV] END clf__colsample_bytree=0.677372470371314,
clf__learning_rate=0.07902643375391344, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=327,
clf__subsample=0.8804291849886425, preprocessor__text__max_features=7263,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.8s
[CV] END clf__colsample_bytree=0.8995797106199395,
clf__learning_rate=0.1430403956730839, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=519,
clf__subsample=0.7499829225448063, preprocessor__text__max_features=7774,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.6s
[CV] END clf__colsample_bytree=0.9419329206614571,
clf__learning_rate=0.12059352580412477, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=532,
clf__subsample=0.8509684609880367, preprocessor__text__max_features=3966,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.5s
[CV] END clf__colsample_bytree=0.8995797106199395,
clf__learning_rate=0.1430403956730839, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=519,
clf__subsample=0.7499829225448063, preprocessor__text__max_features=7774,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 8.9s
[CV] END clf__colsample_bytree=0.9419329206614571,
clf__learning_rate=0.12059352580412477, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=532,
clf__subsample=0.8509684609880367, preprocessor__text__max_features=3966,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.0s
[CV] END clf__colsample_bytree=0.9459303417722431,
clf__learning_rate=0.10880377951130527, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=816,
clf__subsample=0.7420026576065465, preprocessor__text__max_features=6193,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 19.6s
[CV] END clf__colsample_bytree=0.894040514737088,
clf__learning_rate=0.07118145317632799, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=729,
clf__subsample=0.9737656209042682, preprocessor__text__max_features=7057,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.9s
[CV] END clf__colsample_bytree=0.8995797106199395,
clf__learning_rate=0.1430403956730839, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=519,
clf__subsample=0.7499829225448063, preprocessor__text__max_features=7774,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.9s
[CV] END clf__colsample_bytree=0.894040514737088,
clf__learning_rate=0.07118145317632799, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=729,
clf__subsample=0.9737656209042682, preprocessor__text__max_features=7057,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 16.0s
[CV] END clf__colsample_bytree=0.9656163261808319,
clf__learning_rate=0.10687267888490931, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=843,
clf__subsample=0.8320491766905421, preprocessor__text__max_features=5606,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.7s
[CV] END clf__colsample_bytree=0.9675959172303523,
clf__learning_rate=0.08213857961783166, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=501,
clf__subsample=0.7751520482956353, preprocessor__text__max_features=6506,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.1s
[CV] END clf__colsample_bytree=0.9459303417722431,
clf__learning_rate=0.10880377951130527, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=816,
clf__subsample=0.7420026576065465, preprocessor__text__max_features=6193,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 23.9s
[CV] END clf__colsample_bytree=0.894040514737088,
clf__learning_rate=0.07118145317632799, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=729,
clf__subsample=0.9737656209042682, preprocessor__text__max_features=7057,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 18.3s
[CV] END clf__colsample_bytree=0.9459303417722431,
clf__learning_rate=0.10880377951130527, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=816,
clf__subsample=0.7420026576065465, preprocessor__text__max_features=6193,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 25.9s
[CV] END clf__colsample_bytree=0.9675959172303523,
clf__learning_rate=0.08213857961783166, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=501,
clf__subsample=0.7751520482956353, preprocessor__text__max_features=6506,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.4s
[CV] END clf__colsample_bytree=0.809764616591327,
clf__learning_rate=0.136803065635266, clf__max_depth=4, clf__min_child_weight=3,
clf__n_estimators=671, clf__subsample=0.9010196961165271,
preprocessor__text__max_features=3577, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 3.8s
[CV] END clf__colsample_bytree=0.9682269045150956,
clf__learning_rate=0.09027199489153642, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=845,
clf__subsample=0.7466898934664746, preprocessor__text__max_features=5420,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 32.8s
[CV] END clf__colsample_bytree=0.9675959172303523,
clf__learning_rate=0.08213857961783166, clf__max_depth=4,
clf__min_child_weight=4, clf__n_estimators=501,
clf__subsample=0.7751520482956353, preprocessor__text__max_features=6506,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.809764616591327,
clf__learning_rate=0.136803065635266, clf__max_depth=4, clf__min_child_weight=3,
clf__n_estimators=671, clf__subsample=0.9010196961165271,
preprocessor__text__max_features=3577, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 5.9s
[CV] END clf__colsample_bytree=0.809764616591327,
clf__learning_rate=0.136803065635266, clf__max_depth=4, clf__min_child_weight=3,
clf__n_estimators=671, clf__subsample=0.9010196961165271,
preprocessor__text__max_features=3577, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 7.7s
[CV] END clf__colsample_bytree=0.6005924030501659,
clf__learning_rate=0.03837086804397466, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=430,
clf__subsample=0.7350151103432342, preprocessor__text__max_features=6386,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.3s
[CV] END clf__colsample_bytree=0.9656163261808319,
clf__learning_rate=0.10687267888490931, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=843,
clf__subsample=0.8320491766905421, preprocessor__text__max_features=5606,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 18.5s
[CV] END clf__colsample_bytree=0.9656163261808319,
clf__learning_rate=0.10687267888490931, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=843,
clf__subsample=0.8320491766905421, preprocessor__text__max_features=5606,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 19.8s
[CV] END clf__colsample_bytree=0.8445916578651831,
clf__learning_rate=0.07984469060003882, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=342,
clf__subsample=0.7097199345859977, preprocessor__text__max_features=6842,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.4s
[CV] END clf__colsample_bytree=0.8445916578651831,
clf__learning_rate=0.07984469060003882, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=342,
clf__subsample=0.7097199345859977, preprocessor__text__max_features=6842,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 7.8s
[CV] END clf__colsample_bytree=0.9682269045150956,
clf__learning_rate=0.09027199489153642, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=845,
clf__subsample=0.7466898934664746, preprocessor__text__max_features=5420,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 41.8s
[CV] END clf__colsample_bytree=0.6005924030501659,
clf__learning_rate=0.03837086804397466, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=430,
clf__subsample=0.7350151103432342, preprocessor__text__max_features=6386,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 18.5s
[CV] END clf__colsample_bytree=0.9746502088378235,
clf__learning_rate=0.1043794609891026, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=536,
clf__subsample=0.9713690669134556, preprocessor__text__max_features=5414,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.5s
[CV] END clf__colsample_bytree=0.8445916578651831,
clf__learning_rate=0.07984469060003882, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=342,
clf__subsample=0.7097199345859977, preprocessor__text__max_features=6842,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.7s
[CV] END clf__colsample_bytree=0.9805910640283837,
clf__learning_rate=0.11569309880639811, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=511,
clf__subsample=0.8924502649413117, preprocessor__text__max_features=6668,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.4s
[CV] END clf__colsample_bytree=0.8140826928249489,
clf__learning_rate=0.04550272798738474, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=433,
clf__subsample=0.8768459976833439, preprocessor__text__max_features=4497,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.2s
[CV] END clf__colsample_bytree=0.9805910640283837,
clf__learning_rate=0.11569309880639811, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=511,
clf__subsample=0.8924502649413117, preprocessor__text__max_features=6668,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.5s
[CV] END clf__colsample_bytree=0.9746502088378235,
clf__learning_rate=0.1043794609891026, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=536,
clf__subsample=0.9713690669134556, preprocessor__text__max_features=5414,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.8s
[CV] END clf__colsample_bytree=0.9746502088378235,
clf__learning_rate=0.1043794609891026, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=536,
clf__subsample=0.9713690669134556, preprocessor__text__max_features=5414,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.3s
[CV] END clf__colsample_bytree=0.6005924030501659,
clf__learning_rate=0.03837086804397466, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=430,
clf__subsample=0.7350151103432342, preprocessor__text__max_features=6386,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 25.1s
[CV] END clf__colsample_bytree=0.9805910640283837,
clf__learning_rate=0.11569309880639811, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=511,
clf__subsample=0.8924502649413117, preprocessor__text__max_features=6668,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.2s
[CV] END clf__colsample_bytree=0.8140826928249489,
clf__learning_rate=0.04550272798738474, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=433,
clf__subsample=0.8768459976833439, preprocessor__text__max_features=4497,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.7s
[CV] END clf__colsample_bytree=0.7365396836779922,
clf__learning_rate=0.09103119732949393, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=330,
clf__subsample=0.7060842154678588, preprocessor__text__max_features=4024,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.1s
[CV] END clf__colsample_bytree=0.8140826928249489,
clf__learning_rate=0.04550272798738474, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=433,
clf__subsample=0.8768459976833439, preprocessor__text__max_features=4497,
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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.4s
[CV] END clf__colsample_bytree=0.8373784444786109,
clf__learning_rate=0.0671979279153389, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=779,
clf__subsample=0.9445115641736088, preprocessor__text__max_features=5455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.6s
[CV] END clf__colsample_bytree=0.8294349611050406,
clf__learning_rate=0.14135875645868828, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=407,
clf__subsample=0.9362125892901856, preprocessor__text__max_features=4551,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.7365396836779922,
clf__learning_rate=0.09103119732949393, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=330,
clf__subsample=0.7060842154678588, preprocessor__text__max_features=4024,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.6s
[CV] END clf__colsample_bytree=0.8294349611050406,
clf__learning_rate=0.14135875645868828, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=407,
clf__subsample=0.9362125892901856, preprocessor__text__max_features=4551,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.3s
[CV] END clf__colsample_bytree=0.6502247124408153,
clf__learning_rate=0.0358444944876737, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=390,
clf__subsample=0.8948214053726876, preprocessor__text__max_features=6868,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.7s
[CV] END clf__colsample_bytree=0.6502247124408153,
clf__learning_rate=0.0358444944876737, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=390,
clf__subsample=0.8948214053726876, preprocessor__text__max_features=6868,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.9s
[CV] END clf__colsample_bytree=0.8294349611050406,
clf__learning_rate=0.14135875645868828, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=407,
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clf__subsample=0.9362125892901856, preprocessor__text__max_features=4551,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.6s
[CV] END clf__colsample_bytree=0.9682269045150956,
clf__learning_rate=0.09027199489153642, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=845,
clf__subsample=0.7466898934664746, preprocessor__text__max_features=5420,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 53.6s
[CV] END clf__colsample_bytree=0.7365396836779922,
clf__learning_rate=0.09103119732949393, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=330,
clf__subsample=0.7060842154678588, preprocessor__text__max_features=4024,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.3s
[CV] END clf__colsample_bytree=0.8373784444786109,
clf__learning_rate=0.0671979279153389, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=779,
clf__subsample=0.9445115641736088, preprocessor__text__max_features=5455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.2s
[CV] END clf__colsample_bytree=0.6502247124408153,
clf__learning_rate=0.0358444944876737, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=390,
clf__subsample=0.8948214053726876, preprocessor__text__max_features=6868,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.1s
[CV] END clf__colsample_bytree=0.8373784444786109,
clf__learning_rate=0.0671979279153389, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=779,
clf__subsample=0.9445115641736088, preprocessor__text__max_features=5455,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.6s
[CV] END clf__colsample_bytree=0.7599348818254903,
clf__learning_rate=0.09220746958794143, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=331,
clf__subsample=0.7522566854845881, preprocessor__text__max_features=4653,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.0s
[CV] END clf__colsample_bytree=0.7599348818254903,
clf__learning_rate=0.09220746958794143, clf__max_depth=5,

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clf__min_child_weight=3, clf__n_estimators=331,
clf__subsample=0.7522566854845881, preprocessor__text__max_features=4653,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.0s
[CV] END clf__colsample_bytree=0.7272745101976327,
clf__learning_rate=0.06498547983779315, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=792,
clf__subsample=0.9090291063516985, preprocessor__text__max_features=6998,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 15.1s
[CV] END clf__colsample_bytree=0.9537038333475507,
clf__learning_rate=0.09365094253843484, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=358,
clf__subsample=0.9673324792773392, preprocessor__text__max_features=5045,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.4s
[CV] END clf__colsample_bytree=0.9537038333475507,
clf__learning_rate=0.09365094253843484, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=358,
clf__subsample=0.9673324792773392, preprocessor__text__max_features=5045,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.4s
[CV] END clf__colsample_bytree=0.7221689621629193,
clf__learning_rate=0.07792356067967912, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=899,
clf__subsample=0.7988143320010205, preprocessor__text__max_features=3421,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.8s
[CV] END clf__colsample_bytree=0.7599348818254903,
clf__learning_rate=0.09220746958794143, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=331,
clf__subsample=0.7522566854845881, preprocessor__text__max_features=4653,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.1s
[CV] END clf__colsample_bytree=0.660492002165953,
clf__learning_rate=0.08742942550776135, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=451,
clf__subsample=0.7417628472598465, preprocessor__text__max_features=5305,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.8s
[CV] END clf__colsample_bytree=0.7221689621629193,

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clf__learning_rate=0.07792356067967912, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=899,
clf__subsample=0.7988143320010205, preprocessor__text__max_features=3421,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.3s
[CV] END clf__colsample_bytree=0.9537038333475507,
clf__learning_rate=0.09365094253843484, clf__max_depth=6,
clf__min_child_weight=2, clf__n_estimators=358,
clf__subsample=0.9673324792773392, preprocessor__text__max_features=5045,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.3s
[CV] END clf__colsample_bytree=0.7221689621629193,
clf__learning_rate=0.07792356067967912, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=899,
clf__subsample=0.7988143320010205, preprocessor__text__max_features=3421,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.3s
[CV] END clf__colsample_bytree=0.6111876039858251,
clf__learning_rate=0.13122939595477728, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=317,
clf__subsample=0.9372647805433455, preprocessor__text__max_features=8537,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.2s
[CV] END clf__colsample_bytree=0.6111876039858251,
clf__learning_rate=0.13122939595477728, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=317,
clf__subsample=0.9372647805433455, preprocessor__text__max_features=8537,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.8s
[CV] END clf__colsample_bytree=0.7776627461666457,
clf__learning_rate=0.08471060443823866, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=343,
clf__subsample=0.7420680074109692, preprocessor__text__max_features=7797,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.7s
[CV] END clf__colsample_bytree=0.7272745101976327,
clf__learning_rate=0.06498547983779315, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=792,
clf__subsample=0.9090291063516985, preprocessor__text__max_features=6998,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.6s

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[CV] END clf__colsample_bytree=0.660492002165953,
clf__learning_rate=0.08742942550776135, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=451,
clf__subsample=0.7417628472598465, preprocessor__text__max_features=5305,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.7776627461666457,
clf__learning_rate=0.08471060443823866, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=343,
clf__subsample=0.7420680074109692, preprocessor__text__max_features=7797,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.5s
[CV] END clf__colsample_bytree=0.6111876039858251,
clf__learning_rate=0.13122939595477728, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=317,
clf__subsample=0.9372647805433455, preprocessor__text__max_features=8537,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.9s
[CV] END clf__colsample_bytree=0.7272745101976327,
clf__learning_rate=0.06498547983779315, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=792,
clf__subsample=0.9090291063516985, preprocessor__text__max_features=6998,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 20.2s
[CV] END clf__colsample_bytree=0.6944123776636943,
clf__learning_rate=0.07591130557522377, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=882,
clf__subsample=0.8878391690132121, preprocessor__text__max_features=5229,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.2s
[CV] END clf__colsample_bytree=0.660492002165953,
clf__learning_rate=0.08742942550776135, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=451,
clf__subsample=0.7417628472598465, preprocessor__text__max_features=5305,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.8s
[CV] END clf__colsample_bytree=0.6944123776636943,
clf__learning_rate=0.07591130557522377, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=882,
clf__subsample=0.8878391690132121, preprocessor__text__max_features=5229,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 5.7s
[CV] END clf__colsample_bytree=0.6944123776636943,
clf__learning_rate=0.07591130557522377, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=882,
clf__subsample=0.8878391690132121, preprocessor__text__max_features=5229,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.2s
[CV] END clf__colsample_bytree=0.7776627461666457,
clf__learning_rate=0.08471060443823866, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=343,
clf__subsample=0.7420680074109692, preprocessor__text__max_features=7797,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.6s
[CV] END clf__colsample_bytree=0.9820505239018035,
clf__learning_rate=0.0875960828473448, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=682,
clf__subsample=0.922043208101846, preprocessor__text__max_features=6885,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.9s
[CV] END clf__colsample_bytree=0.6106704769581276,
clf__learning_rate=0.04588797958083976, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=576,
clf__subsample=0.8558889472331512, preprocessor__text__max_features=7052,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.9820505239018035,
clf__learning_rate=0.0875960828473448, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=682,
clf__subsample=0.922043208101846, preprocessor__text__max_features=6885,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.9s
[CV] END clf__colsample_bytree=0.9371256332887221,
clf__learning_rate=0.08395281928874063, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=666,
clf__subsample=0.8336136854862966, preprocessor__text__max_features=4040,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.1s
[CV] END clf__colsample_bytree=0.7201547892168748,
clf__learning_rate=0.08658144649916066, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=533,
clf__subsample=0.9870800047452468, preprocessor__text__max_features=4551,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.5s
[CV] END clf__colsample_bytree=0.7201547892168748,
clf__learning_rate=0.08658144649916066, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=533,
clf__subsample=0.9870800047452468, preprocessor__text__max_features=4551,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.7185315246849382,
clf__learning_rate=0.04934119403031652, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=703,
clf__subsample=0.8329853711685739, preprocessor__text__max_features=3649,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.4s
[CV] END clf__colsample_bytree=0.9371256332887221,
clf__learning_rate=0.08395281928874063, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=666,
clf__subsample=0.8336136854862966, preprocessor__text__max_features=4040,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.2s
[CV] END clf__colsample_bytree=0.7185315246849382,
clf__learning_rate=0.04934119403031652, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=703,
clf__subsample=0.8329853711685739, preprocessor__text__max_features=3649,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.9s
[CV] END clf__colsample_bytree=0.9371256332887221,
clf__learning_rate=0.08395281928874063, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=666,
clf__subsample=0.8336136854862966, preprocessor__text__max_features=4040,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.0s
[CV] END clf__colsample_bytree=0.7201547892168748,
clf__learning_rate=0.08658144649916066, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=533,
clf__subsample=0.9870800047452468, preprocessor__text__max_features=4551,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.4s
[CV] END clf__colsample_bytree=0.6106704769581276,
clf__learning_rate=0.04588797958083976, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=576,
clf__subsample=0.8558889472331512, preprocessor__text__max_features=7052,

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preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.8s
[CV] END clf__colsample_bytree=0.7185315246849382,
clf__learning_rate=0.04934119403031652, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=703,
clf__subsample=0.8329853711685739, preprocessor__text__max_features=3649,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.5s
[CV] END clf__colsample_bytree=0.9820505239018035,
clf__learning_rate=0.0875960828473448, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=682,
clf__subsample=0.922043208101846, preprocessor__text__max_features=6885,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.0s
[CV] END clf__colsample_bytree=0.7236798444530946,
clf__learning_rate=0.06024467736342522, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=692,
clf__subsample=0.9142960932822572, preprocessor__text__max_features=8336,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.4s
[CV] END clf__colsample_bytree=0.6106704769581276,
clf__learning_rate=0.04588797958083976, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=576,
clf__subsample=0.8558889472331512, preprocessor__text__max_features=7052,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.4s
[CV] END clf__colsample_bytree=0.7236798444530946,
clf__learning_rate=0.06024467736342522, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=692,
clf__subsample=0.9142960932822572, preprocessor__text__max_features=8336,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.8s
[CV] END clf__colsample_bytree=0.7765239400246403,
clf__learning_rate=0.12161532977511183, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=743,
clf__subsample=0.8869055095850269, preprocessor__text__max_features=5431,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.7s
[CV] END clf__colsample_bytree=0.7765239400246403,
clf__learning_rate=0.12161532977511183, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=743,

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clf__subsample=0.8869055095850269, preprocessor__text__max_features=5431,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.8s
[CV] END clf__colsample_bytree=0.8067020180514323,
clf__learning_rate=0.14957419739852876, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=884,
clf__subsample=0.9707979005339227, preprocessor__text__max_features=3636,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.7s
[CV] END clf__colsample_bytree=0.8067020180514323,
clf__learning_rate=0.14957419739852876, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=884,
clf__subsample=0.9707979005339227, preprocessor__text__max_features=3636,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.7655220144658162,
clf__learning_rate=0.03526331357079947, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=551,
clf__subsample=0.7916743408504989, preprocessor__text__max_features=7674,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.5s
[CV] END clf__colsample_bytree=0.7765239400246403,
clf__learning_rate=0.12161532977511183, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=743,
clf__subsample=0.8869055095850269, preprocessor__text__max_features=5431,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.8s
[CV] END clf__colsample_bytree=0.8067020180514323,
clf__learning_rate=0.14957419739852876, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=884,
clf__subsample=0.9707979005339227, preprocessor__text__max_features=3636,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.7236798444530946,
clf__learning_rate=0.06024467736342522, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=692,
clf__subsample=0.9142960932822572, preprocessor__text__max_features=8336,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.0s
[CV] END clf__colsample_bytree=0.7655220144658162,
clf__learning_rate=0.03526331357079947, clf__max_depth=8,

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clf__min_child_weight=1, clf__n_estimators=551,
clf__subsample=0.7916743408504989, preprocessor__text__max_features=7674,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.3s
[CV] END clf__colsample_bytree=0.7655220144658162,
clf__learning_rate=0.03526331357079947, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=551,
clf__subsample=0.7916743408504989, preprocessor__text__max_features=7674,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.7s
[CV] END clf__colsample_bytree=0.6862042368630562,
clf__learning_rate=0.09390552730710666, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=320,
clf__subsample=0.7693345181235537, preprocessor__text__max_features=3780,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 1.6s
[CV] END clf__colsample_bytree=0.6862042368630562,
clf__learning_rate=0.09390552730710666, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=320,
clf__subsample=0.7693345181235537, preprocessor__text__max_features=3780,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 1.7s
[CV] END clf__colsample_bytree=0.6862042368630562,
clf__learning_rate=0.09390552730710666, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=320,
clf__subsample=0.7693345181235537, preprocessor__text__max_features=3780,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.7s
[CV] END clf__colsample_bytree=0.6559175691754028,
clf__learning_rate=0.1325346948005357, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=374,
clf__subsample=0.7684971282075528, preprocessor__text__max_features=7869,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 1.5s
[CV] END clf__colsample_bytree=0.6559175691754028,
clf__learning_rate=0.1325346948005357, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=374,
clf__subsample=0.7684971282075528, preprocessor__text__max_features=7869,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 1.7s
[CV] END clf__colsample_bytree=0.6559175691754028,

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clf__learning_rate=0.1325346948005357, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=374,
clf__subsample=0.7684971282075528, preprocessor__text__max_features=7869,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.7s
[CV] END clf__colsample_bytree=0.6091126486421492,
clf__learning_rate=0.07250877352106136, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.8342547307725341, preprocessor__text__max_features=3179,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.7s
[CV] END clf__colsample_bytree=0.6091126486421492,
clf__learning_rate=0.07250877352106136, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.8342547307725341, preprocessor__text__max_features=3179,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.5s
[CV] END clf__colsample_bytree=0.6091126486421492,
clf__learning_rate=0.07250877352106136, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=877,
clf__subsample=0.8342547307725341, preprocessor__text__max_features=3179,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.3s
[CV] END clf__colsample_bytree=0.9935976277684386,
clf__learning_rate=0.08185620395110796, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=722,
clf__subsample=0.9103525854683531, preprocessor__text__max_features=3207,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.9s
[CV] END clf__colsample_bytree=0.9935976277684386,
clf__learning_rate=0.08185620395110796, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=722,
clf__subsample=0.9103525854683531, preprocessor__text__max_features=3207,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.9s
[CV] END clf__colsample_bytree=0.8690824952033696,
clf__learning_rate=0.08515352473691112, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=660,
clf__subsample=0.7951384090192612, preprocessor__text__max_features=6040,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.0s

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[CV] END clf__colsample_bytree=0.8690824952033696,
clf__learning_rate=0.08515352473691112, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=660,
clf__subsample=0.7951384090192612, preprocessor__text__max_features=6040,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.9935976277684386,
clf__learning_rate=0.08185620395110796, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=722,
clf__subsample=0.9103525854683531, preprocessor__text__max_features=3207,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.4s
[CV] END clf__colsample_bytree=0.8690824952033696,
clf__learning_rate=0.08515352473691112, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=660,
clf__subsample=0.7951384090192612, preprocessor__text__max_features=6040,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.1s
[CV] END clf__colsample_bytree=0.7470248628490017,
clf__learning_rate=0.052465967727951035, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=434,
clf__subsample=0.7454632673066482, preprocessor__text__max_features=8411,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.2s
[CV] END clf__colsample_bytree=0.7470248628490017,
clf__learning_rate=0.052465967727951035, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=434,
clf__subsample=0.7454632673066482, preprocessor__text__max_features=8411,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.0s
[CV] END clf__colsample_bytree=0.7810135127005027,
clf__learning_rate=0.1420638276440409, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=479,
clf__subsample=0.7145068415625073, preprocessor__text__max_features=6113,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.5s
[CV] END clf__colsample_bytree=0.7470248628490017,
clf__learning_rate=0.052465967727951035, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=434,
clf__subsample=0.7454632673066482, preprocessor__text__max_features=8411,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

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total time= 7.9s
[CV] END clf__colsample_bytree=0.8031641604170923,
clf__learning_rate=0.0520912825329867, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=657,
clf__subsample=0.9339688255809628, preprocessor__text__max_features=3482,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.7s
[CV] END clf__colsample_bytree=0.8031641604170923,
clf__learning_rate=0.0520912825329867, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=657,
clf__subsample=0.9339688255809628, preprocessor__text__max_features=3482,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.7s
[CV] END clf__colsample_bytree=0.7810135127005027,
clf__learning_rate=0.1420638276440409, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=479,
clf__subsample=0.7145068415625073, preprocessor__text__max_features=6113,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.8s
[CV] END clf__colsample_bytree=0.8031641604170923,
clf__learning_rate=0.0520912825329867, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=657,
clf__subsample=0.9339688255809628, preprocessor__text__max_features=3482,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.9s
[CV] END clf__colsample_bytree=0.7608011251170871,
clf__learning_rate=0.10570273936329318, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=566,
clf__subsample=0.791780491834425, preprocessor__text__max_features=7737,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.4s
[CV] END clf__colsample_bytree=0.7438912435624376,
clf__learning_rate=0.05589604939188236, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=426,
clf__subsample=0.9379307482664007, preprocessor__text__max_features=7488,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.7438912435624376,
clf__learning_rate=0.05589604939188236, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=426,
clf__subsample=0.9379307482664007, preprocessor__text__max_features=7488,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.7608011251170871,
clf__learning_rate=0.10570273936329318, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=566,
clf__subsample=0.791780491834425, preprocessor__text__max_features=7737,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.8s
[CV] END clf__colsample_bytree=0.7810135127005027,
clf__learning_rate=0.1420638276440409, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=479,
clf__subsample=0.7145068415625073, preprocessor__text__max_features=6113,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.6s
[CV] END clf__colsample_bytree=0.9179379039810509,
clf__learning_rate=0.13247925786122178, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=452,
clf__subsample=0.9582007044011152, preprocessor__text__max_features=5178,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.6s
[CV] END clf__colsample_bytree=0.9179379039810509,
clf__learning_rate=0.13247925786122178, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=452,
clf__subsample=0.9582007044011152, preprocessor__text__max_features=5178,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.9179379039810509,
clf__learning_rate=0.13247925786122178, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=452,
clf__subsample=0.9582007044011152, preprocessor__text__max_features=5178,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.4s
[CV] END clf__colsample_bytree=0.7608011251170871,
clf__learning_rate=0.10570273936329318, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=566,
clf__subsample=0.791780491834425, preprocessor__text__max_features=7737,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.8s
[CV] END clf__colsample_bytree=0.6270633948568043,
clf__learning_rate=0.04395236020571096, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=700,
clf__subsample=0.738044788942558, preprocessor__text__max_features=8238,

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preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.6s
[CV] END clf__colsample_bytree=0.7438912435624376,
clf__learning_rate=0.05589604939188236, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=426,
clf__subsample=0.9379307482664007, preprocessor__text__max_features=7488,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.7s
[CV] END clf__colsample_bytree=0.7990535395252244,
clf__learning_rate=0.09633653277418457, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=451,
clf__subsample=0.7873268265384673, preprocessor__text__max_features=8565,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.2s
[CV] END clf__colsample_bytree=0.6270633948568043,
clf__learning_rate=0.04395236020571096, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=700,
clf__subsample=0.738044788942558, preprocessor__text__max_features=8238,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 18.4s
[CV] END clf__colsample_bytree=0.7990535395252244,
clf__learning_rate=0.09633653277418457, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=451,
clf__subsample=0.7873268265384673, preprocessor__text__max_features=8565,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.5s
[CV] END clf__colsample_bytree=0.7990535395252244,
clf__learning_rate=0.09633653277418457, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=451,
clf__subsample=0.7873268265384673, preprocessor__text__max_features=8565,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.3s
[CV] END clf__colsample_bytree=0.6270633948568043,
clf__learning_rate=0.04395236020571096, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=700,
clf__subsample=0.738044788942558, preprocessor__text__max_features=8238,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 19.4s
[CV] END clf__colsample_bytree=0.7503682125963489,
clf__learning_rate=0.13084854413295316, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=302,

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clf__subsample=0.7761346778726835, preprocessor__text__max_features=7008,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.7s
[CV] END clf__colsample_bytree=0.7792596237636975,
clf__learning_rate=0.03464131536366803, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=334,
clf__subsample=0.8729488964028579, preprocessor__text__max_features=3656,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.8s
[CV] END clf__colsample_bytree=0.7503682125963489,
clf__learning_rate=0.13084854413295316, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=302,
clf__subsample=0.7761346778726835, preprocessor__text__max_features=7008,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 6.0s
[CV] END clf__colsample_bytree=0.7503682125963489,
clf__learning_rate=0.13084854413295316, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=302,
clf__subsample=0.7761346778726835, preprocessor__text__max_features=7008,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.0s
[CV] END clf__colsample_bytree=0.7792596237636975,
clf__learning_rate=0.03464131536366803, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=334,
clf__subsample=0.8729488964028579, preprocessor__text__max_features=3656,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.1s
[CV] END clf__colsample_bytree=0.7792596237636975,
clf__learning_rate=0.03464131536366803, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=334,
clf__subsample=0.8729488964028579, preprocessor__text__max_features=3656,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.3s
[CV] END clf__colsample_bytree=0.8738087960584224,
clf__learning_rate=0.11208481967010421, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=883,
clf__subsample=0.8736663484875355, preprocessor__text__max_features=7030,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 13.0s
[CV] END clf__colsample_bytree=0.8738087960584224,
clf__learning_rate=0.11208481967010421, clf__max_depth=7,

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clf__min_child_weight=4, clf__n_estimators=883,
clf__subsample=0.8736663484875355, preprocessor__text__max_features=7030,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.0s
[CV] END clf__colsample_bytree=0.8069948381999298,
clf__learning_rate=0.043798509382659466, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=634,
clf__subsample=0.9448377774537626, preprocessor__text__max_features=7377,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.6s
[CV] END clf__colsample_bytree=0.8738087960584224,
clf__learning_rate=0.11208481967010421, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=883,
clf__subsample=0.8736663484875355, preprocessor__text__max_features=7030,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.6s
[CV] END clf__colsample_bytree=0.7533563358175371,
clf__learning_rate=0.10353869550491637, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=645,
clf__subsample=0.9083801471465818, preprocessor__text__max_features=5797,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.8s
[CV] END clf__colsample_bytree=0.7533563358175371,
clf__learning_rate=0.10353869550491637, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=645,
clf__subsample=0.9083801471465818, preprocessor__text__max_features=5797,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.6s
[CV] END clf__colsample_bytree=0.9322916975809683,
clf__learning_rate=0.06472843183127125, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=563,
clf__subsample=0.7206637883626378, preprocessor__text__max_features=4764,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.7s
[CV] END clf__colsample_bytree=0.7658387805873683,
clf__learning_rate=0.07765779192291239, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=882,
clf__subsample=0.9733516723379566, preprocessor__text__max_features=4808,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.3s
[CV] END clf__colsample_bytree=0.7533563358175371,

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clf__learning_rate=0.10353869550491637, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=645,
clf__subsample=0.9083801471465818, preprocessor__text__max_features=5797,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.9s
[CV] END clf__colsample_bytree=0.8069948381999298,
clf__learning_rate=0.043798509382659466, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=634,
clf__subsample=0.944837774537626, preprocessor__text__max_features=7377,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.7s
[CV] END clf__colsample_bytree=0.7658387805873683,
clf__learning_rate=0.07765779192291239, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=882,
clf__subsample=0.9733516723379566, preprocessor__text__max_features=4808,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.7s
[CV] END clf__colsample_bytree=0.8069948381999298,
clf__learning_rate=0.043798509382659466, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=634,
clf__subsample=0.944837774537626, preprocessor__text__max_features=7377,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.9s
[CV] END clf__colsample_bytree=0.7658387805873683,
clf__learning_rate=0.07765779192291239, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=882,
clf__subsample=0.9733516723379566, preprocessor__text__max_features=4808,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.9s
[CV] END clf__colsample_bytree=0.8777609799743911,
clf__learning_rate=0.058963318841834464, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=374,
clf__subsample=0.9418993719862718, preprocessor__text__max_features=3775,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.8777609799743911,
clf__learning_rate=0.058963318841834464, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=374,
clf__subsample=0.9418993719862718, preprocessor__text__max_features=3775,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.6s

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[CV] END clf__colsample_bytree=0.6547631232173917,
clf__learning_rate=0.12584596906675213, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=393,
clf__subsample=0.7315483366920847, preprocessor__text__max_features=5361,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.0s
[CV] END clf__colsample_bytree=0.8777609799743911,
clf__learning_rate=0.058963318841834464, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=374,
clf__subsample=0.9418993719862718, preprocessor__text__max_features=3775,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.9322916975809683,
clf__learning_rate=0.06472843183127125, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=563,
clf__subsample=0.7206637883626378, preprocessor__text__max_features=4764,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.0s
[CV] END clf__colsample_bytree=0.7170214739894558,
clf__learning_rate=0.08643543821987709, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=794,
clf__subsample=0.8502370804158901, preprocessor__text__max_features=4757,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.6s
[CV] END clf__colsample_bytree=0.7170214739894558,
clf__learning_rate=0.08643543821987709, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=794,
clf__subsample=0.8502370804158901, preprocessor__text__max_features=4757,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.5s
[CV] END clf__colsample_bytree=0.6547631232173917,
clf__learning_rate=0.12584596906675213, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=393,
clf__subsample=0.7315483366920847, preprocessor__text__max_features=5361,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.8s
[CV] END clf__colsample_bytree=0.7170214739894558,
clf__learning_rate=0.08643543821987709, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=794,
clf__subsample=0.8502370804158901, preprocessor__text__max_features=4757,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 4.6s
[CV] END clf__colsample_bytree=0.6547631232173917,
clf__learning_rate=0.12584596906675213, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=393,
clf__subsample=0.7315483366920847, preprocessor__text__max_features=5361,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.4s
[CV] END clf__colsample_bytree=0.9322916975809683,
clf__learning_rate=0.06472843183127125, clf__max_depth=6,
clf__min_child_weight=1, clf__n_estimators=563,
clf__subsample=0.7206637883626378, preprocessor__text__max_features=4764,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.6s
[CV] END clf__colsample_bytree=0.6886156173454127,
clf__learning_rate=0.10962020341029936, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=340,
clf__subsample=0.8870349669164697, preprocessor__text__max_features=6486,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.3s
[CV] END clf__colsample_bytree=0.8425264293344055,
clf__learning_rate=0.09168483433811667, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=629,
clf__subsample=0.7879835144663337, preprocessor__text__max_features=5311,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.6886156173454127,
clf__learning_rate=0.10962020341029936, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=340,
clf__subsample=0.8870349669164697, preprocessor__text__max_features=6486,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.4s
[CV] END clf__colsample_bytree=0.6886156173454127,
clf__learning_rate=0.10962020341029936, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=340,
clf__subsample=0.8870349669164697, preprocessor__text__max_features=6486,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.8s
[CV] END clf__colsample_bytree=0.7926487630885027,
clf__learning_rate=0.10515385428204624, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=814,
clf__subsample=0.9411544013355461, preprocessor__text__max_features=4827,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.1s
[CV] END clf__colsample_bytree=0.7658820035277298,
clf__learning_rate=0.10519336908143771, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=693,
clf__subsample=0.8936786339343221, preprocessor__text__max_features=4348,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.2s
[CV] END clf__colsample_bytree=0.7658820035277298,
clf__learning_rate=0.10519336908143771, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=693,
clf__subsample=0.8936786339343221, preprocessor__text__max_features=4348,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.2s
[CV] END clf__colsample_bytree=0.6753305845575304,
clf__learning_rate=0.03312676230759846, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=813,
clf__subsample=0.9632652605225114, preprocessor__text__max_features=6082,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.6s
[CV] END clf__colsample_bytree=0.7658820035277298,
clf__learning_rate=0.10519336908143771, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=693,
clf__subsample=0.8936786339343221, preprocessor__text__max_features=4348,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.5s
[CV] END clf__colsample_bytree=0.6753305845575304,
clf__learning_rate=0.03312676230759846, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=813,
clf__subsample=0.9632652605225114, preprocessor__text__max_features=6082,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.0s
[CV] END clf__colsample_bytree=0.7926487630885027,
clf__learning_rate=0.10515385428204624, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=814,
clf__subsample=0.9411544013355461, preprocessor__text__max_features=4827,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.2s
[CV] END clf__colsample_bytree=0.6753305845575304,
clf__learning_rate=0.03312676230759846, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=813,
clf__subsample=0.9632652605225114, preprocessor__text__max_features=6082,
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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.9s
[CV] END clf__colsample_bytree=0.8425264293344055,
clf__learning_rate=0.09168483433811667, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=629,
clf__subsample=0.7879835144663337, preprocessor__text__max_features=5311,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.4s
[CV] END clf__colsample_bytree=0.7926487630885027,
clf__learning_rate=0.10515385428204624, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=814,
clf__subsample=0.9411544013355461, preprocessor__text__max_features=4827,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 12.5s
[CV] END clf__colsample_bytree=0.8425264293344055,
clf__learning_rate=0.09168483433811667, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=629,
clf__subsample=0.7879835144663337, preprocessor__text__max_features=5311,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.5s
[CV] END clf__colsample_bytree=0.6042409362418164,
clf__learning_rate=0.14333590841902005, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=756,
clf__subsample=0.7297561936526142, preprocessor__text__max_features=8069,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.6s
[CV] END clf__colsample_bytree=0.8242776677472113,
clf__learning_rate=0.12354880013994474, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=341,
clf__subsample=0.8333079359913376, preprocessor__text__max_features=7294,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 1.6s
[CV] END clf__colsample_bytree=0.6604604394427991,
clf__learning_rate=0.04072160846234805, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=730,
clf__subsample=0.9164948742163993, preprocessor__text__max_features=5675,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.6604604394427991,
clf__learning_rate=0.04072160846234805, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=730,

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clf__subsample=0.9164948742163993, preprocessor__text__max_features=5675,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.9s
[CV] END clf__colsample_bytree=0.6042409362418164,
clf__learning_rate=0.14333590841902005, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=756,
clf__subsample=0.7297561936526142, preprocessor__text__max_features=8069,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.6s
[CV] END clf__colsample_bytree=0.8242776677472113,
clf__learning_rate=0.12354880013994474, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=341,
clf__subsample=0.8333079359913376, preprocessor__text__max_features=7294,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 1.9s
[CV] END clf__colsample_bytree=0.8242776677472113,
clf__learning_rate=0.12354880013994474, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=341,
clf__subsample=0.8333079359913376, preprocessor__text__max_features=7294,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 1.9s
[CV] END clf__colsample_bytree=0.6562048640466266,
clf__learning_rate=0.11763621253664441, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=790,
clf__subsample=0.8736734255758524, preprocessor__text__max_features=5660,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.5s
[CV] END clf__colsample_bytree=0.6042409362418164,
clf__learning_rate=0.14333590841902005, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=756,
clf__subsample=0.7297561936526142, preprocessor__text__max_features=8069,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.3s
[CV] END clf__colsample_bytree=0.6604604394427991,
clf__learning_rate=0.04072160846234805, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=730,
clf__subsample=0.9164948742163993, preprocessor__text__max_features=5675,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.2s
[CV] END clf__colsample_bytree=0.7663825137121818,
clf__learning_rate=0.03851204137523054, clf__max_depth=6,

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clf__min_child_weight=5, clf__n_estimators=899,
clf__subsample=0.7386194504948791, preprocessor__text__max_features=7681,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.6s
[CV] END clf__colsample_bytree=0.7663825137121818,
clf__learning_rate=0.03851204137523054, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=899,
clf__subsample=0.7386194504948791, preprocessor__text__max_features=7681,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.4s
[CV] END clf__colsample_bytree=0.9695293767901512,
clf__learning_rate=0.05914800295062841, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=322,
clf__subsample=0.9045891303431213, preprocessor__text__max_features=7435,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.0s
[CV] END clf__colsample_bytree=0.6562048640466266,
clf__learning_rate=0.11763621253664441, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=790,
clf__subsample=0.8736734255758524, preprocessor__text__max_features=5660,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.7s
[CV] END clf__colsample_bytree=0.9695293767901512,
clf__learning_rate=0.05914800295062841, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=322,
clf__subsample=0.9045891303431213, preprocessor__text__max_features=7435,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.0s
[CV] END clf__colsample_bytree=0.7663825137121818,
clf__learning_rate=0.03851204137523054, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=899,
clf__subsample=0.7386194504948791, preprocessor__text__max_features=7681,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.1s
[CV] END clf__colsample_bytree=0.9695293767901512,
clf__learning_rate=0.05914800295062841, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=322,
clf__subsample=0.9045891303431213, preprocessor__text__max_features=7435,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.8s
[CV] END clf__colsample_bytree=0.6562048640466266,

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clf__learning_rate=0.11763621253664441, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=790,
clf__subsample=0.8736734255758524, preprocessor__text__max_features=5660,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.1s
[CV] END clf__colsample_bytree=0.8058855252492161,
clf__learning_rate=0.03569846027561402, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=567,
clf__subsample=0.866814303230939, preprocessor__text__max_features=4670,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.7s
[CV] END clf__colsample_bytree=0.8058855252492161,
clf__learning_rate=0.03569846027561402, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=567,
clf__subsample=0.866814303230939, preprocessor__text__max_features=4670,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.3s
[CV] END clf__colsample_bytree=0.8058855252492161,
clf__learning_rate=0.03569846027561402, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=567,
clf__subsample=0.866814303230939, preprocessor__text__max_features=4670,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.7s
[CV] END clf__colsample_bytree=0.9390949191405503,
clf__learning_rate=0.13524824081161352, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=384,
clf__subsample=0.7650487886162275, preprocessor__text__max_features=4631,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.5s
[CV] END clf__colsample_bytree=0.9390949191405503,
clf__learning_rate=0.13524824081161352, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=384,
clf__subsample=0.7650487886162275, preprocessor__text__max_features=4631,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.0s
[CV] END clf__colsample_bytree=0.9390949191405503,
clf__learning_rate=0.13524824081161352, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=384,
clf__subsample=0.7650487886162275, preprocessor__text__max_features=4631,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.1s

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[CV] END clf__colsample_bytree=0.8245015476850195,
clf__learning_rate=0.12022651519182172, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=782,
clf__subsample=0.8624719007335838, preprocessor__text__max_features=7985,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.0s
[CV] END clf__colsample_bytree=0.8245015476850195,
clf__learning_rate=0.12022651519182172, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=782,
clf__subsample=0.8624719007335838, preprocessor__text__max_features=7985,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.7s
[CV] END clf__colsample_bytree=0.8741097846903867,
clf__learning_rate=0.10326409078241677, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=653,
clf__subsample=0.9850079805389271, preprocessor__text__max_features=3554,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.5s
[CV] END clf__colsample_bytree=0.8741097846903867,
clf__learning_rate=0.10326409078241677, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=653,
clf__subsample=0.9850079805389271, preprocessor__text__max_features=3554,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.5s
[CV] END clf__colsample_bytree=0.8245015476850195,
clf__learning_rate=0.12022651519182172, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=782,
clf__subsample=0.8624719007335838, preprocessor__text__max_features=7985,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.3s
[CV] END clf__colsample_bytree=0.6813203034672359,
clf__learning_rate=0.14006771895539555, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=526,
clf__subsample=0.7731650475838772, preprocessor__text__max_features=4505,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.2s
[CV] END clf__colsample_bytree=0.7878942133496485,
clf__learning_rate=0.09433799520885841, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=314,
clf__subsample=0.7125433249476106, preprocessor__text__max_features=4584,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;

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total time= 2.1s
[CV] END clf__colsample_bytree=0.7878942133496485,
clf__learning_rate=0.09433799520885841, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=314,
clf__subsample=0.7125433249476106, preprocessor__text__max_features=4584,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.4s
[CV] END clf__colsample_bytree=0.8741097846903867,
clf__learning_rate=0.10326409078241677, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=653,
clf__subsample=0.9850079805389271, preprocessor__text__max_features=3554,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.7s
[CV] END clf__colsample_bytree=0.7878942133496485,
clf__learning_rate=0.09433799520885841, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=314,
clf__subsample=0.7125433249476106, preprocessor__text__max_features=4584,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.5s
[CV] END clf__colsample_bytree=0.9699027622514672,
clf__learning_rate=0.06875858326812481, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=884,
clf__subsample=0.9954881620006757, preprocessor__text__max_features=8975,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.7177395944260722,
clf__learning_rate=0.07580741748349426, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=610,
clf__subsample=0.731466513178949, preprocessor__text__max_features=8605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 1.5s
[CV] END clf__colsample_bytree=0.7177395944260722,
clf__learning_rate=0.07580741748349426, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=610,
clf__subsample=0.731466513178949, preprocessor__text__max_features=8605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 1.4s
[CV] END clf__colsample_bytree=0.7177395944260722,
clf__learning_rate=0.07580741748349426, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=610,
clf__subsample=0.731466513178949, preprocessor__text__max_features=8605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 1.4s
[CV] END clf__colsample_bytree=0.6813203034672359,
clf__learning_rate=0.14006771895539555, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=526,
clf__subsample=0.7731650475838772, preprocessor__text__max_features=4505,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.4s
[CV] END clf__colsample_bytree=0.9699027622514672,
clf__learning_rate=0.06875858326812481, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=884,
clf__subsample=0.9954881620006757, preprocessor__text__max_features=8975,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.3s
[CV] END clf__colsample_bytree=0.9699027622514672,
clf__learning_rate=0.06875858326812481, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=884,
clf__subsample=0.9954881620006757, preprocessor__text__max_features=8975,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.4s
[CV] END clf__colsample_bytree=0.6813203034672359,
clf__learning_rate=0.14006771895539555, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=526,
clf__subsample=0.7731650475838772, preprocessor__text__max_features=4505,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.6311327187885286,
clf__learning_rate=0.1328796657227017, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=397,
clf__subsample=0.8126917321236823, preprocessor__text__max_features=4051,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.6311327187885286,
clf__learning_rate=0.1328796657227017, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=397,
clf__subsample=0.8126917321236823, preprocessor__text__max_features=4051,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.7s
[CV] END clf__colsample_bytree=0.6311327187885286,
clf__learning_rate=0.1328796657227017, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=397,
clf__subsample=0.8126917321236823, preprocessor__text__max_features=4051,

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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.6s
[CV] END clf__colsample_bytree=0.8925182258052264,
clf__learning_rate=0.14485786053246946, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=820,
clf__subsample=0.8416128614029253, preprocessor__text__max_features=8835,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.2s
[CV] END clf__colsample_bytree=0.8925182258052264,
clf__learning_rate=0.14485786053246946, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=820,
clf__subsample=0.8416128614029253, preprocessor__text__max_features=8835,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.5s
[CV] END clf__colsample_bytree=0.890540892229206,
clf__learning_rate=0.057296817188909666, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=501, clf__subsample=0.84889494762724,
preprocessor__text__max_features=5381, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=True; total time= 5.7s
[CV] END clf__colsample_bytree=0.8925182258052264,
clf__learning_rate=0.14485786053246946, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=820,
clf__subsample=0.8416128614029253, preprocessor__text__max_features=8835,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.8s
[CV] END clf__colsample_bytree=0.890540892229206,
clf__learning_rate=0.057296817188909666, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=501, clf__subsample=0.84889494762724,
preprocessor__text__max_features=5381, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=True; total time= 5.5s
[CV] END clf__colsample_bytree=0.6744081441619981,
clf__learning_rate=0.0948529527295529, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=781,
clf__subsample=0.9165555568162324, preprocessor__text__max_features=5229,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.4s
[CV] END clf__colsample_bytree=0.890540892229206,
clf__learning_rate=0.057296817188909666, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=501, clf__subsample=0.84889494762724,
preprocessor__text__max_features=5381, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 1), preprocessor__text__smooth_idf=False,

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preprocessor__text__sublinear_tf=True; total time= 6.3s
[CV] END clf__colsample_bytree=0.7769217505423108,
clf__learning_rate=0.1259742330609232, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=749,
clf__subsample=0.8491074975006218, preprocessor__text__max_features=7619,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.0s
[CV] END clf__colsample_bytree=0.6744081441619981,
clf__learning_rate=0.0948529527295529, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=781,
clf__subsample=0.9165555568162324, preprocessor__text__max_features=5229,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.5s
[CV] END clf__colsample_bytree=0.6744081441619981,
clf__learning_rate=0.0948529527295529, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=781,
clf__subsample=0.9165555568162324, preprocessor__text__max_features=5229,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.7s
[CV] END clf__colsample_bytree=0.7769217505423108,
clf__learning_rate=0.1259742330609232, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=749,
clf__subsample=0.8491074975006218, preprocessor__text__max_features=7619,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.1s
[CV] END clf__colsample_bytree=0.6831406673835345,
clf__learning_rate=0.09701183612851906, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=899,
clf__subsample=0.916776607618931, preprocessor__text__max_features=5036,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.6s
[CV] END clf__colsample_bytree=0.7769217505423108,
clf__learning_rate=0.1259742330609232, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=749,
clf__subsample=0.8491074975006218, preprocessor__text__max_features=7619,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.9s
[CV] END clf__colsample_bytree=0.795589947094691,
clf__learning_rate=0.05614539688501585, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=382,
clf__subsample=0.9128179471569282, preprocessor__text__max_features=6756,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.1s
[CV] END clf__colsample_bytree=0.9433827512111753,
clf__learning_rate=0.047856734565856304, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=865,
clf__subsample=0.9247536198395235, preprocessor__text__max_features=5874,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.7s
[CV] END clf__colsample_bytree=0.795589947094691,
clf__learning_rate=0.05614539688501585, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=382,
clf__subsample=0.9128179471569282, preprocessor__text__max_features=6756,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.5s
[CV] END clf__colsample_bytree=0.7227519997865307,
clf__learning_rate=0.14390249317889184, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=302,
clf__subsample=0.8664893085639302, preprocessor__text__max_features=3025,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.1s
[CV] END clf__colsample_bytree=0.6831406673835345,
clf__learning_rate=0.09701183612851906, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=899,
clf__subsample=0.916776607618931, preprocessor__text__max_features=5036,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.9s
[CV] END clf__colsample_bytree=0.6831406673835345,
clf__learning_rate=0.09701183612851906, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=899,
clf__subsample=0.916776607618931, preprocessor__text__max_features=5036,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.3s
[CV] END clf__colsample_bytree=0.836496048230739,
clf__learning_rate=0.08079369196303532, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=391,
clf__subsample=0.9051474654155559, preprocessor__text__max_features=7217,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 1.3s
[CV] END clf__colsample_bytree=0.795589947094691,
clf__learning_rate=0.05614539688501585, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=382,
clf__subsample=0.9128179471569282, preprocessor__text__max_features=6756,

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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.6s
[CV] END clf__colsample_bytree=0.9433827512111753,
clf__learning_rate=0.047856734565856304, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=865,
clf__subsample=0.9247536198395235, preprocessor__text__max_features=5874,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.3s
[CV] END clf__colsample_bytree=0.7227519997865307,
clf__learning_rate=0.14390249317889184, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=302,
clf__subsample=0.8664893085639302, preprocessor__text__max_features=3025,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.3s
[CV] END clf__colsample_bytree=0.836496048230739,
clf__learning_rate=0.08079369196303532, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=391,
clf__subsample=0.9051474654155559, preprocessor__text__max_features=7217,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.0s
[CV] END clf__colsample_bytree=0.836496048230739,
clf__learning_rate=0.08079369196303532, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=391,
clf__subsample=0.9051474654155559, preprocessor__text__max_features=7217,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 1.1s
[CV] END clf__colsample_bytree=0.7227519997865307,
clf__learning_rate=0.14390249317889184, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=302,
clf__subsample=0.8664893085639302, preprocessor__text__max_features=3025,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.0s
[CV] END clf__colsample_bytree=0.9433827512111753,
clf__learning_rate=0.047856734565856304, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=865,
clf__subsample=0.9247536198395235, preprocessor__text__max_features=5874,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.6s
[CV] END clf__colsample_bytree=0.893235361737984,
clf__learning_rate=0.11342373441506415, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=408,

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clf__subsample=0.9952428162209114, preprocessor__text__max_features=3275,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.6s
[CV] END clf__colsample_bytree=0.893235361737984,
clf__learning_rate=0.11342373441506415, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=408,
clf__subsample=0.9952428162209114, preprocessor__text__max_features=3275,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.1s
[CV] END clf__colsample_bytree=0.893235361737984,
clf__learning_rate=0.11342373441506415, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=408,
clf__subsample=0.9952428162209114, preprocessor__text__max_features=3275,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.2s
[CV] END clf__colsample_bytree=0.8345272589308866,
clf__learning_rate=0.14212401929861868, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=475,
clf__subsample=0.8354755172103905, preprocessor__text__max_features=6495,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.4s
[CV] END clf__colsample_bytree=0.9439575723779978,
clf__learning_rate=0.13115865501116686, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=629,
clf__subsample=0.921470252214343, preprocessor__text__max_features=3363,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.8345272589308866,
clf__learning_rate=0.14212401929861868, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=475,
clf__subsample=0.8354755172103905, preprocessor__text__max_features=6495,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.0s
[CV] END clf__colsample_bytree=0.7702378074555076,
clf__learning_rate=0.1412910885008959, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=582,
clf__subsample=0.8075418214271569, preprocessor__text__max_features=4391,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.6s
[CV] END clf__colsample_bytree=0.7702378074555076,
clf__learning_rate=0.1412910885008959, clf__max_depth=7,

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clf__min_child_weight=3, clf__n_estimators=582,
clf__subsample=0.8075418214271569, preprocessor__text__max_features=4391,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.2s
[CV] END clf__colsample_bytree=0.9439575723779978,
clf__learning_rate=0.13115865501116686, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=629,
clf__subsample=0.921470252214343, preprocessor__text__max_features=3363,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.1s
[CV] END clf__colsample_bytree=0.7702378074555076,
clf__learning_rate=0.1412910885008959, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=582,
clf__subsample=0.8075418214271569, preprocessor__text__max_features=4391,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.4s
[CV] END clf__colsample_bytree=0.8990281607525306,
clf__learning_rate=0.10369906643624544, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=844,
clf__subsample=0.972008077098057, preprocessor__text__max_features=6114,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.2s
[CV] END clf__colsample_bytree=0.9439575723779978,
clf__learning_rate=0.13115865501116686, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=629,
clf__subsample=0.921470252214343, preprocessor__text__max_features=3363,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.1s
[CV] END clf__colsample_bytree=0.8345272589308866,
clf__learning_rate=0.14212401929861868, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=475,
clf__subsample=0.8354755172103905, preprocessor__text__max_features=6495,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.8s
[CV] END clf__colsample_bytree=0.8990281607525306,
clf__learning_rate=0.10369906643624544, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=844,
clf__subsample=0.972008077098057, preprocessor__text__max_features=6114,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.6s
[CV] END clf__colsample_bytree=0.8990281607525306,

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clf__learning_rate=0.10369906643624544, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=844,
clf__subsample=0.972008077098057, preprocessor__text__max_features=6114,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.7760119133390176,
clf__learning_rate=0.10728741767629031, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=331,
clf__subsample=0.7775992241748685, preprocessor__text__max_features=7465,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.3s
[CV] END clf__colsample_bytree=0.7760119133390176,
clf__learning_rate=0.10728741767629031, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=331,
clf__subsample=0.7775992241748685, preprocessor__text__max_features=7465,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.1s
[CV] END clf__colsample_bytree=0.9601753210709844,
clf__learning_rate=0.1015557605952575, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=375, clf__subsample=0.97365728276233,
preprocessor__text__max_features=5412, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 3.8s
[CV] END clf__colsample_bytree=0.7760119133390176,
clf__learning_rate=0.10728741767629031, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=331,
clf__subsample=0.7775992241748685, preprocessor__text__max_features=7465,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.5s
[CV] END clf__colsample_bytree=0.9601753210709844,
clf__learning_rate=0.1015557605952575, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=375, clf__subsample=0.97365728276233,
preprocessor__text__max_features=5412, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 5.8s
[CV] END clf__colsample_bytree=0.9601753210709844,
clf__learning_rate=0.1015557605952575, clf__max_depth=6,
clf__min_child_weight=5, clf__n_estimators=375, clf__subsample=0.97365728276233,
preprocessor__text__max_features=5412, preprocessor__text__min_df=3,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=True,
preprocessor__text__sublinear_tf=True; total time= 6.8s
[CV] END clf__colsample_bytree=0.8045623944106566,
clf__learning_rate=0.08937769115484058, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=820,

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clf__subsample=0.8375331860296727, preprocessor__text__max_features=6288,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.6s
[CV] END clf__colsample_bytree=0.8045623944106566,
clf__learning_rate=0.08937769115484058, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=820,
clf__subsample=0.8375331860296727, preprocessor__text__max_features=6288,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 10.1s
[CV] END clf__colsample_bytree=0.8854901026925148,
clf__learning_rate=0.12534541645634995, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=402,
clf__subsample=0.8411531974311317, preprocessor__text__max_features=5632,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.0s
[CV] END clf__colsample_bytree=0.6908744317295052,
clf__learning_rate=0.08274295114613713, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=789,
clf__subsample=0.7704888628146993, preprocessor__text__max_features=5001,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.0s
[CV] END clf__colsample_bytree=0.8854901026925148,
clf__learning_rate=0.12534541645634995, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=402,
clf__subsample=0.8411531974311317, preprocessor__text__max_features=5632,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.4s
[CV] END clf__colsample_bytree=0.8854901026925148,
clf__learning_rate=0.12534541645634995, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=402,
clf__subsample=0.8411531974311317, preprocessor__text__max_features=5632,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.2s
[CV] END clf__colsample_bytree=0.8045623944106566,
clf__learning_rate=0.08937769115484058, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=820,
clf__subsample=0.8375331860296727, preprocessor__text__max_features=6288,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.2s
[CV] END clf__colsample_bytree=0.7221088357303422,
clf__learning_rate=0.1427415852771346, clf__max_depth=7,

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clf__min_child_weight=3, clf__n_estimators=510,
clf__subsample=0.7604758122372939, preprocessor__text__max_features=8013,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.7s
[CV] END clf__colsample_bytree=0.6908744317295052,
clf__learning_rate=0.08274295114613713, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=789,
clf__subsample=0.7704888628146993, preprocessor__text__max_features=5001,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 16.1s
[CV] END clf__colsample_bytree=0.7221088357303422,
clf__learning_rate=0.1427415852771346, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=510,
clf__subsample=0.7604758122372939, preprocessor__text__max_features=8013,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.6s
[CV] END clf__colsample_bytree=0.6908744317295052,
clf__learning_rate=0.08274295114613713, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=789,
clf__subsample=0.7704888628146993, preprocessor__text__max_features=5001,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 17.7s
[CV] END clf__colsample_bytree=0.7221088357303422,
clf__learning_rate=0.1427415852771346, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=510,
clf__subsample=0.7604758122372939, preprocessor__text__max_features=8013,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.2s
[CV] END clf__colsample_bytree=0.7082787684703853,
clf__learning_rate=0.13430348603782022, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=670,
clf__subsample=0.9488062678341428, preprocessor__text__max_features=7179,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.8s
[CV] END clf__colsample_bytree=0.6417488346895626,
clf__learning_rate=0.1377981320103439, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=396,
clf__subsample=0.9981032040599027, preprocessor__text__max_features=5757,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.5s
[CV] END clf__colsample_bytree=0.6417488346895626,

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clf__learning_rate=0.1377981320103439, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=396,
clf__subsample=0.9981032040599027, preprocessor__text__max_features=5757,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.7s
[CV] END clf__colsample_bytree=0.7082787684703853,
clf__learning_rate=0.13430348603782022, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=670,
clf__subsample=0.9488062678341428, preprocessor__text__max_features=7179,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.0s
[CV] END clf__colsample_bytree=0.6417488346895626,
clf__learning_rate=0.1377981320103439, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=396,
clf__subsample=0.9981032040599027, preprocessor__text__max_features=5757,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.6s
[CV] END clf__colsample_bytree=0.7082787684703853,
clf__learning_rate=0.13430348603782022, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=670,
clf__subsample=0.9488062678341428, preprocessor__text__max_features=7179,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.3s
[CV] END clf__colsample_bytree=0.625662850047687,
clf__learning_rate=0.049622030994194, clf__max_depth=5, clf__min_child_weight=5,
clf__n_estimators=469, clf__subsample=0.7401530232417357,
preprocessor__text__max_features=3819, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 3.1s
[CV] END clf__colsample_bytree=0.632028453443224,
clf__learning_rate=0.09037601291303948, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=787,
clf__subsample=0.9881251581021883, preprocessor__text__max_features=5703,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.7s
[CV] END clf__colsample_bytree=0.7908121765637903,
clf__learning_rate=0.10654202324219786, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=830,
clf__subsample=0.9719514123686406, preprocessor__text__max_features=7776,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.1s
[CV] END clf__colsample_bytree=0.632028453443224,

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clf__learning_rate=0.09037601291303948, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=787,
clf__subsample=0.9881251581021883, preprocessor__text__max_features=5703,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.8s
[CV] END clf__colsample_bytree=0.632028453443224,
clf__learning_rate=0.09037601291303948, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=787,
clf__subsample=0.9881251581021883, preprocessor__text__max_features=5703,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.1s
[CV] END clf__colsample_bytree=0.625662850047687,
clf__learning_rate=0.049622030994194, clf__max_depth=5, clf__min_child_weight=5,
clf__n_estimators=469, clf__subsample=0.7401530232417357,
preprocessor__text__max_features=3819, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 4.7s
[CV] END clf__colsample_bytree=0.625662850047687,
clf__learning_rate=0.049622030994194, clf__max_depth=5, clf__min_child_weight=5,
clf__n_estimators=469, clf__subsample=0.7401530232417357,
preprocessor__text__max_features=3819, preprocessor__text__min_df=1,
preprocessor__text__ngram_range=(1, 2), preprocessor__text__smooth_idf=False,
preprocessor__text__sublinear_tf=False; total time= 4.3s
[CV] END clf__colsample_bytree=0.7908121765637903,
clf__learning_rate=0.10654202324219786, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=830,
clf__subsample=0.9719514123686406, preprocessor__text__max_features=7776,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.7s
[CV] END clf__colsample_bytree=0.8092734532880298,
clf__learning_rate=0.13611104806229513, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=565,
clf__subsample=0.9101248331881409, preprocessor__text__max_features=3432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.2s
[CV] END clf__colsample_bytree=0.7908121765637903,
clf__learning_rate=0.10654202324219786, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=830,
clf__subsample=0.9719514123686406, preprocessor__text__max_features=7776,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.5s
[CV] END clf__colsample_bytree=0.8092734532880298,
clf__learning_rate=0.13611104806229513, clf__max_depth=3,

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clf__min_child_weight=4, clf__n_estimators=565,
clf__subsample=0.9101248331881409, preprocessor__text__max_features=3432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 1.9s
[CV] END clf__colsample_bytree=0.9376090410169787,
clf__learning_rate=0.05530307281194395, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=586,
clf__subsample=0.7578228621056585, preprocessor__text__max_features=7022,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.6s
[CV] END clf__colsample_bytree=0.9157845973045569,
clf__learning_rate=0.04772038682767607, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=714,
clf__subsample=0.8419863510837055, preprocessor__text__max_features=5522,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.8092734532880298,
clf__learning_rate=0.13611104806229513, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=565,
clf__subsample=0.9101248331881409, preprocessor__text__max_features=3432,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.6s
[CV] END clf__colsample_bytree=0.9157845973045569,
clf__learning_rate=0.04772038682767607, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=714,
clf__subsample=0.8419863510837055, preprocessor__text__max_features=5522,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.1s
[CV] END clf__colsample_bytree=0.9376090410169787,
clf__learning_rate=0.05530307281194395, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=586,
clf__subsample=0.7578228621056585, preprocessor__text__max_features=7022,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.9157845973045569,
clf__learning_rate=0.04772038682767607, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=714,
clf__subsample=0.8419863510837055, preprocessor__text__max_features=5522,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.2s
[CV] END clf__colsample_bytree=0.753075813793891,

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clf__learning_rate=0.0563267407661904, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=393,
clf__subsample=0.9912587453776884, preprocessor__text__max_features=5639,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.2s
[CV] END clf__colsample_bytree=0.9376090410169787,
clf__learning_rate=0.05530307281194395, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=586,
clf__subsample=0.7578228621056585, preprocessor__text__max_features=7022,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.0s
[CV] END clf__colsample_bytree=0.8860739369683541,
clf__learning_rate=0.0835248006679685, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=535,
clf__subsample=0.8852841421161683, preprocessor__text__max_features=6967,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.3s
[CV] END clf__colsample_bytree=0.8860739369683541,
clf__learning_rate=0.0835248006679685, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=535,
clf__subsample=0.8852841421161683, preprocessor__text__max_features=6967,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.0s
[CV] END clf__colsample_bytree=0.8807589958483533,
clf__learning_rate=0.08552761239757073, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=881,
clf__subsample=0.8233392394430864, preprocessor__text__max_features=8531,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.2s
[CV] END clf__colsample_bytree=0.8807589958483533,
clf__learning_rate=0.08552761239757073, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=881,
clf__subsample=0.8233392394430864, preprocessor__text__max_features=8531,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.753075813793891,
clf__learning_rate=0.0563267407661904, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=393,
clf__subsample=0.9912587453776884, preprocessor__text__max_features=5639,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.0s

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[CV] END clf__colsample_bytree=0.9760022791907821,
clf__learning_rate=0.1338267475775681, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=304,
clf__subsample=0.9942483679795489, preprocessor__text__max_features=8877,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.0s
[CV] END clf__colsample_bytree=0.8860739369683541,
clf__learning_rate=0.0835248006679685, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=535,
clf__subsample=0.8852841421161683, preprocessor__text__max_features=6967,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.4s
[CV] END clf__colsample_bytree=0.753075813793891,
clf__learning_rate=0.0563267407661904, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=393,
clf__subsample=0.9912587453776884, preprocessor__text__max_features=5639,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.6s
[CV] END clf__colsample_bytree=0.9760022791907821,
clf__learning_rate=0.1338267475775681, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=304,
clf__subsample=0.9942483679795489, preprocessor__text__max_features=8877,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.2s
[CV] END clf__colsample_bytree=0.860317201726259,
clf__learning_rate=0.06490836640828049, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=888,
clf__subsample=0.7169955266988747, preprocessor__text__max_features=5361,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 16.8s
[CV] END clf__colsample_bytree=0.9760022791907821,
clf__learning_rate=0.1338267475775681, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=304,
clf__subsample=0.9942483679795489, preprocessor__text__max_features=8877,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.6s
[CV] END clf__colsample_bytree=0.820600132064412,
clf__learning_rate=0.1425028380431711, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=388,
clf__subsample=0.9093342636489505, preprocessor__text__max_features=8471,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;

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total time= 2.9s
[CV] END clf__colsample_bytree=0.9216657232375094,
clf__learning_rate=0.12133225575748137, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=544,
clf__subsample=0.7317364804475923, preprocessor__text__max_features=8758,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.3s
[CV] END clf__colsample_bytree=0.8807589958483533,
clf__learning_rate=0.08552761239757073, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=881,
clf__subsample=0.8233392394430864, preprocessor__text__max_features=8531,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 14.1s
[CV] END clf__colsample_bytree=0.9216657232375094,
clf__learning_rate=0.12133225575748137, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=544,
clf__subsample=0.7317364804475923, preprocessor__text__max_features=8758,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.5s
[CV] END clf__colsample_bytree=0.860317201726259,
clf__learning_rate=0.06490836640828049, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=888,
clf__subsample=0.7169955266988747, preprocessor__text__max_features=5361,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 17.9s
[CV] END clf__colsample_bytree=0.820600132064412,
clf__learning_rate=0.1425028380431711, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=388,
clf__subsample=0.9093342636489505, preprocessor__text__max_features=8471,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.5s
[CV] END clf__colsample_bytree=0.820600132064412,
clf__learning_rate=0.1425028380431711, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=388,
clf__subsample=0.9093342636489505, preprocessor__text__max_features=8471,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.7s
[CV] END clf__colsample_bytree=0.9216657232375094,
clf__learning_rate=0.12133225575748137, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=544,
clf__subsample=0.7317364804475923, preprocessor__text__max_features=8758,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.5s
[CV] END clf__colsample_bytree=0.8130995485911121,
clf__learning_rate=0.10650855030748506, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=451,
clf__subsample=0.9499388762919863, preprocessor__text__max_features=3439,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.9s
[CV] END clf__colsample_bytree=0.860317201726259,
clf__learning_rate=0.06490836640828049, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=888,
clf__subsample=0.7169955266988747, preprocessor__text__max_features=5361,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 22.1s
[CV] END clf__colsample_bytree=0.8130995485911121,
clf__learning_rate=0.10650855030748506, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=451,
clf__subsample=0.9499388762919863, preprocessor__text__max_features=3439,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.8130995485911121,
clf__learning_rate=0.10650855030748506, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=451,
clf__subsample=0.9499388762919863, preprocessor__text__max_features=3439,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.4s
[CV] END clf__colsample_bytree=0.7545949240301157,
clf__learning_rate=0.07484931608891343, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=739,
clf__subsample=0.9316979748849437, preprocessor__text__max_features=8145,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.8s
[CV] END clf__colsample_bytree=0.7545949240301157,
clf__learning_rate=0.07484931608891343, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=739,
clf__subsample=0.9316979748849437, preprocessor__text__max_features=8145,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.7545949240301157,
clf__learning_rate=0.07484931608891343, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=739,
clf__subsample=0.9316979748849437, preprocessor__text__max_features=8145,
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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.3s
[CV] END clf__colsample_bytree=0.9665270681097486,
clf__learning_rate=0.04699574827705569, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=741,
clf__subsample=0.7842732856408748, preprocessor__text__max_features=3675,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.7s
[CV] END clf__colsample_bytree=0.716555393402814,
clf__learning_rate=0.03307688046617171, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=880,
clf__subsample=0.981742306158396, preprocessor__text__max_features=6609,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.9665270681097486,
clf__learning_rate=0.04699574827705569, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=741,
clf__subsample=0.7842732856408748, preprocessor__text__max_features=3675,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.2s
[CV] END clf__colsample_bytree=0.9665270681097486,
clf__learning_rate=0.04699574827705569, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=741,
clf__subsample=0.7842732856408748, preprocessor__text__max_features=3675,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 11.4s
[CV] END clf__colsample_bytree=0.8724623288774561,
clf__learning_rate=0.1170892628554287, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=807,
clf__subsample=0.9489997575699156, preprocessor__text__max_features=6493,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.5s
[CV] END clf__colsample_bytree=0.7213191501123184,
clf__learning_rate=0.04387811108381415, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=396,
clf__subsample=0.997325343596838, preprocessor__text__max_features=4250,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.8s
[CV] END clf__colsample_bytree=0.7213191501123184,
clf__learning_rate=0.04387811108381415, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=396,

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clf__subsample=0.997325343596838, preprocessor__text__max_features=4250,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.5s
[CV] END clf__colsample_bytree=0.7093677819945446,
clf__learning_rate=0.0793000698876796, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=779,
clf__subsample=0.8069448550717552, preprocessor__text__max_features=4869,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 13.7s
[CV] END clf__colsample_bytree=0.716555393402814,
clf__learning_rate=0.03307688046617171, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=880,
clf__subsample=0.981742306158396, preprocessor__text__max_features=6609,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.2s
[CV] END clf__colsample_bytree=0.8724623288774561,
clf__learning_rate=0.1170892628554287, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=807,
clf__subsample=0.9489997575699156, preprocessor__text__max_features=6493,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.4s
[CV] END clf__colsample_bytree=0.7213191501123184,
clf__learning_rate=0.04387811108381415, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=396,
clf__subsample=0.997325343596838, preprocessor__text__max_features=4250,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.0s
[CV] END clf__colsample_bytree=0.9820049781291625,
clf__learning_rate=0.14166019889678647, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=818,
clf__subsample=0.9132491760417369, preprocessor__text__max_features=5356,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.4s
[CV] END clf__colsample_bytree=0.782750082797751,
clf__learning_rate=0.05909771669885477, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=315,
clf__subsample=0.9953177303552614, preprocessor__text__max_features=6421,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.4s
[CV] END clf__colsample_bytree=0.716555393402814,
clf__learning_rate=0.03307688046617171, clf__max_depth=5,

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clf__min_child_weight=3, clf__n_estimators=880,
clf__subsample=0.981742306158396, preprocessor__text__max_features=6609,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.3s
[CV] END clf__colsample_bytree=0.9820049781291625,
clf__learning_rate=0.14166019889678647, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=818,
clf__subsample=0.9132491760417369, preprocessor__text__max_features=5356,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.5s
[CV] END clf__colsample_bytree=0.782750082797751,
clf__learning_rate=0.05909771669885477, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=315,
clf__subsample=0.9953177303552614, preprocessor__text__max_features=6421,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.8s
[CV] END clf__colsample_bytree=0.782750082797751,
clf__learning_rate=0.05909771669885477, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=315,
clf__subsample=0.9953177303552614, preprocessor__text__max_features=6421,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.7s
[CV] END clf__colsample_bytree=0.9820049781291625,
clf__learning_rate=0.14166019889678647, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=818,
clf__subsample=0.9132491760417369, preprocessor__text__max_features=5356,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 8.5s
[CV] END clf__colsample_bytree=0.8724623288774561,
clf__learning_rate=0.1170892628554287, clf__max_depth=7,
clf__min_child_weight=3, clf__n_estimators=807,
clf__subsample=0.9489997575699156, preprocessor__text__max_features=6493,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.9s
[CV] END clf__colsample_bytree=0.7093677819945446,
clf__learning_rate=0.0793000698876796, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=779,
clf__subsample=0.8069448550717552, preprocessor__text__max_features=4869,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.2s
[CV] END clf__colsample_bytree=0.8379539802396819,

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clf__learning_rate=0.13735927032279777, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=457,
clf__subsample=0.9881629067900177, preprocessor__text__max_features=5918,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.9s
[CV] END clf__colsample_bytree=0.8379539802396819,
clf__learning_rate=0.13735927032279777, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=457,
clf__subsample=0.9881629067900177, preprocessor__text__max_features=5918,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.8s
[CV] END clf__colsample_bytree=0.7093677819945446,
clf__learning_rate=0.0793000698876796, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=779,
clf__subsample=0.8069448550717552, preprocessor__text__max_features=4869,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 18.8s
[CV] END clf__colsample_bytree=0.8379539802396819,
clf__learning_rate=0.13735927032279777, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=457,
clf__subsample=0.9881629067900177, preprocessor__text__max_features=5918,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.5s
[CV] END clf__colsample_bytree=0.606469829099055,
clf__learning_rate=0.09724852824125235, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=868,
clf__subsample=0.9899204169553817, preprocessor__text__max_features=8204,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.3s
[CV] END clf__colsample_bytree=0.8554997669459291,
clf__learning_rate=0.10028985987345404, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=775,
clf__subsample=0.8639173797086673, preprocessor__text__max_features=5061,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.4s
[CV] END clf__colsample_bytree=0.6749736385162929,
clf__learning_rate=0.0790955189744913, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=566,
clf__subsample=0.9362223968922643, preprocessor__text__max_features=5766,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 1.7s

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[CV] END clf__colsample_bytree=0.606469829099055,
clf__learning_rate=0.09724852824125235, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=868,
clf__subsample=0.9899204169553817, preprocessor__text__max_features=8204,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.8554997669459291,
clf__learning_rate=0.10028985987345404, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=775,
clf__subsample=0.8639173797086673, preprocessor__text__max_features=5061,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.6s
[CV] END clf__colsample_bytree=0.6749736385162929,
clf__learning_rate=0.0790955189744913, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=566,
clf__subsample=0.9362223968922643, preprocessor__text__max_features=5766,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.6s
[CV] END clf__colsample_bytree=0.7966202303356831,
clf__learning_rate=0.03325572154405528, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=808,
clf__subsample=0.7018598424027547, preprocessor__text__max_features=3023,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.8554997669459291,
clf__learning_rate=0.10028985987345404, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=775,
clf__subsample=0.8639173797086673, preprocessor__text__max_features=5061,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.8s
[CV] END clf__colsample_bytree=0.7966202303356831,
clf__learning_rate=0.03325572154405528, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=808,
clf__subsample=0.7018598424027547, preprocessor__text__max_features=3023,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.1s
[CV] END clf__colsample_bytree=0.606469829099055,
clf__learning_rate=0.09724852824125235, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=868,
clf__subsample=0.9899204169553817, preprocessor__text__max_features=8204,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 8.9s
[CV] END clf__colsample_bytree=0.8430202246456004,
clf__learning_rate=0.08534636529012721, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=702,
clf__subsample=0.8528917699572531, preprocessors__text__max_features=8848,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 12.0s
[CV] END clf__colsample_bytree=0.6749736385162929,
clf__learning_rate=0.0790955189744913, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=566,
clf__subsample=0.9362223968922643, preprocessors__text__max_features=5766,
preprocessor__text__min_df=3, preprocessors__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 5.0s
[CV] END clf__colsample_bytree=0.7966202303356831,
clf__learning_rate=0.03325572154405528, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=808,
clf__subsample=0.7018598424027547, preprocessors__text__max_features=3023,
preprocessor__text__min_df=3, preprocessors__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessors__text__sublinear_tf=True;
total time= 13.8s
[CV] END clf__colsample_bytree=0.8430202246456004,
clf__learning_rate=0.08534636529012721, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=702,
clf__subsample=0.8528917699572531, preprocessors__text__max_features=8848,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 15.5s
[CV] END clf__colsample_bytree=0.8430202246456004,
clf__learning_rate=0.08534636529012721, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=702,
clf__subsample=0.8528917699572531, preprocessors__text__max_features=8848,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=True;
total time= 15.9s
[CV] END clf__colsample_bytree=0.6696725742620294,
clf__learning_rate=0.12194338977371529, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=639,
clf__subsample=0.9434320531658902, preprocessors__text__max_features=5934,
preprocessor__text__min_df=2, preprocessors__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessors__text__sublinear_tf=False;
total time= 7.6s
[CV] END clf__colsample_bytree=0.687795754959587,
clf__learning_rate=0.03012759673117416, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=603,
clf__subsample=0.7964205531508853, preprocessors__text__max_features=8194,
preprocessor__text__min_df=1, preprocessors__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 13.7s
[CV] END clf__colsample_bytree=0.6696725742620294,
clf__learning_rate=0.12194338977371529, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=639,
clf__subsample=0.9434320531658902, preprocessor__text__max_features=5934,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 9.7s
[CV] END clf__colsample_bytree=0.9030688268282484,
clf__learning_rate=0.12065179878261897, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=682,
clf__subsample=0.8937165398727992, preprocessor__text__max_features=8782,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.4s
[CV] END clf__colsample_bytree=0.6696725742620294,
clf__learning_rate=0.12194338977371529, clf__max_depth=8,
clf__min_child_weight=3, clf__n_estimators=639,
clf__subsample=0.9434320531658902, preprocessor__text__max_features=5934,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.2s
[CV] END clf__colsample_bytree=0.9030688268282484,
clf__learning_rate=0.12065179878261897, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=682,
clf__subsample=0.8937165398727992, preprocessor__text__max_features=8782,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 12.8s
[CV] END clf__colsample_bytree=0.8129628373347809,
clf__learning_rate=0.14567845568379711, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=803,
clf__subsample=0.8906385868628255, preprocessor__text__max_features=8060,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 10.4s
[CV] END clf__colsample_bytree=0.8756474019972373,
clf__learning_rate=0.09502735875711521, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=635,
clf__subsample=0.9743607468664286, preprocessor__text__max_features=6847,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.8s
[CV] END clf__colsample_bytree=0.8027494302165665,
clf__learning_rate=0.12237751837174146, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=557,
clf__subsample=0.7813456776517824, preprocessor__text__max_features=6797,
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preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.3s
[CV] END clf__colsample_bytree=0.6570362130724468,
clf__learning_rate=0.12878694473574154, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=784,
clf__subsample=0.7191848318541672, preprocessor__text__max_features=5622,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.3s
[CV] END clf__colsample_bytree=0.687795754959587,
clf__learning_rate=0.03012759673117416, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=603,
clf__subsample=0.7964205531508853, preprocessor__text__max_features=8194,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 17.0s
[CV] END clf__colsample_bytree=0.8027494302165665,
clf__learning_rate=0.12237751837174146, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=557,
clf__subsample=0.7813456776517824, preprocessor__text__max_features=6797,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.8s
[CV] END clf__colsample_bytree=0.8756474019972373,
clf__learning_rate=0.09502735875711521, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=635,
clf__subsample=0.9743607468664286, preprocessor__text__max_features=6847,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 4.9s
[CV] END clf__colsample_bytree=0.6570362130724468,
clf__learning_rate=0.12878694473574154, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=784,
clf__subsample=0.7191848318541672, preprocessor__text__max_features=5622,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.0s
[CV] END clf__colsample_bytree=0.6570362130724468,
clf__learning_rate=0.12878694473574154, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=784,
clf__subsample=0.7191848318541672, preprocessor__text__max_features=5622,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.9s
[CV] END clf__colsample_bytree=0.8027494302165665,
clf__learning_rate=0.12237751837174146, clf__max_depth=3,
clf__min_child_weight=1, clf__n_estimators=557,
```

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clf__subsample=0.7813456776517824, preprocessor__text__max_features=6797,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.6s
[CV] END clf__colsample_bytree=0.9030688268282484,
clf__learning_rate=0.12065179878261897, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=682,
clf__subsample=0.8937165398727992, preprocessor__text__max_features=8782,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 15.1s
[CV] END clf__colsample_bytree=0.8134246706196314,
clf__learning_rate=0.03598223134931719, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=374,
clf__subsample=0.9398128616413365, preprocessor__text__max_features=5119,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.6s
[CV] END clf__colsample_bytree=0.687795754959587,
clf__learning_rate=0.03012759673117416, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=603,
clf__subsample=0.7964205531508853, preprocessor__text__max_features=8194,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 19.1s
[CV] END clf__colsample_bytree=0.8756474019972373,
clf__learning_rate=0.09502735875711521, clf__max_depth=6,
clf__min_child_weight=4, clf__n_estimators=635,
clf__subsample=0.9743607468664286, preprocessor__text__max_features=6847,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 6.3s
[CV] END clf__colsample_bytree=0.8134246706196314,
clf__learning_rate=0.03598223134931719, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=374,
clf__subsample=0.9398128616413365, preprocessor__text__max_features=5119,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.6435462201429626,
clf__learning_rate=0.10365984500418228, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=549,
clf__subsample=0.7945864351038946, preprocessor__text__max_features=7317,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.1s
[CV] END clf__colsample_bytree=0.8134246706196314,
clf__learning_rate=0.03598223134931719, clf__max_depth=5,

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clf__min_child_weight=3, clf__n_estimators=374,
clf__subsample=0.9398128616413365, preprocessor__text__max_features=5119,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.6s
[CV] END clf__colsample_bytree=0.6435462201429626,
clf__learning_rate=0.10365984500418228, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=549,
clf__subsample=0.7945864351038946, preprocessor__text__max_features=7317,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.0s
[CV] END clf__colsample_bytree=0.6676561291099404,
clf__learning_rate=0.07593027026351001, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=526,
clf__subsample=0.7872733034639336, preprocessor__text__max_features=4417,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.3s
[CV] END clf__colsample_bytree=0.7421004677294804,
clf__learning_rate=0.10465606913212848, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=867,
clf__subsample=0.850030228298696, preprocessor__text__max_features=8765,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.9s
[CV] END clf__colsample_bytree=0.8129628373347809,
clf__learning_rate=0.14567845568379711, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=803,
clf__subsample=0.8906385868628255, preprocessor__text__max_features=8060,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.6s
[CV] END clf__colsample_bytree=0.8129628373347809,
clf__learning_rate=0.14567845568379711, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=803,
clf__subsample=0.8906385868628255, preprocessor__text__max_features=8060,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.6s
[CV] END clf__colsample_bytree=0.7421004677294804,
clf__learning_rate=0.10465606913212848, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=867,
clf__subsample=0.850030228298696, preprocessor__text__max_features=8765,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.4s
[CV] END clf__colsample_bytree=0.6676561291099404,

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clf__learning_rate=0.07593027026351001, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=526,
clf__subsample=0.7872733034639336, preprocessor__text__max_features=4417,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 3.0s
[CV] END clf__colsample_bytree=0.7421004677294804,
clf__learning_rate=0.10465606913212848, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=867,
clf__subsample=0.850030228298696, preprocessor__text__max_features=8765,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.1s
[CV] END clf__colsample_bytree=0.8731973705627936,
clf__learning_rate=0.05139386062101141, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=758,
clf__subsample=0.7520506553351818, preprocessor__text__max_features=8628,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.2s
[CV] END clf__colsample_bytree=0.8731973705627936,
clf__learning_rate=0.05139386062101141, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=758,
clf__subsample=0.7520506553351818, preprocessor__text__max_features=8628,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 2.5s
[CV] END clf__colsample_bytree=0.864542708634343,
clf__learning_rate=0.1344282082782885, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=325,
clf__subsample=0.9308899118236384, preprocessor__text__max_features=6956,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.0s
[CV] END clf__colsample_bytree=0.864542708634343,
clf__learning_rate=0.1344282082782885, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=325,
clf__subsample=0.9308899118236384, preprocessor__text__max_features=6956,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.1s
[CV] END clf__colsample_bytree=0.865731651571785,
clf__learning_rate=0.1388107104475414, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=673,
clf__subsample=0.7971545855455968, preprocessor__text__max_features=4556,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.2s

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[CV] END clf__colsample_bytree=0.6676561291099404,
clf__learning_rate=0.07593027026351001, clf__max_depth=4,
clf__min_child_weight=5, clf__n_estimators=526,
clf__subsample=0.7872733034639336, preprocessor__text__max_features=4417,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.6s
[CV] END clf__colsample_bytree=0.7251662621694817,
clf__learning_rate=0.06830789829626617, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=401,
clf__subsample=0.9310771127461263, preprocessor__text__max_features=5656,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 5.2s
[CV] END clf__colsample_bytree=0.8731973705627936,
clf__learning_rate=0.05139386062101141, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=758,
clf__subsample=0.7520506553351818, preprocessor__text__max_features=8628,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.7s
[CV] END clf__colsample_bytree=0.864542708634343,
clf__learning_rate=0.1344282082782885, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=325,
clf__subsample=0.9308899118236384, preprocessor__text__max_features=6956,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.0s
[CV] END clf__colsample_bytree=0.6435462201429626,
clf__learning_rate=0.10365984500418228, clf__max_depth=4,
clf__min_child_weight=3, clf__n_estimators=549,
clf__subsample=0.7945864351038946, preprocessor__text__max_features=7317,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.8s
[CV] END clf__colsample_bytree=0.865731651571785,
clf__learning_rate=0.1388107104475414, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=673,
clf__subsample=0.7971545855455968, preprocessor__text__max_features=4556,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.9s
[CV] END clf__colsample_bytree=0.9082373304548748,
clf__learning_rate=0.0394914591143099, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=595,
clf__subsample=0.9098516441652053, preprocessor__text__max_features=8156,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;

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total time= 5.3s
[CV] END clf__colsample_bytree=0.865731651571785,
clf__learning_rate=0.1388107104475414, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=673,
clf__subsample=0.7971545855455968, preprocessor__text__max_features=4556,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.7s
[CV] END clf__colsample_bytree=0.655482225929758,
clf__learning_rate=0.08535775112327193, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=472,
clf__subsample=0.9348595952398498, preprocessor__text__max_features=5605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.8s
[CV] END clf__colsample_bytree=0.9082373304548748,
clf__learning_rate=0.0394914591143099, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=595,
clf__subsample=0.9098516441652053, preprocessor__text__max_features=8156,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.5s
[CV] END clf__colsample_bytree=0.655482225929758,
clf__learning_rate=0.08535775112327193, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=472,
clf__subsample=0.9348595952398498, preprocessor__text__max_features=5605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.2s
[CV] END clf__colsample_bytree=0.7251662621694817,
clf__learning_rate=0.06830789829626617, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=401,
clf__subsample=0.9310771127461263, preprocessor__text__max_features=5656,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.5s
[CV] END clf__colsample_bytree=0.9435641043312777,
clf__learning_rate=0.07416746048917083, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=478,
clf__subsample=0.8871854317792206, preprocessor__text__max_features=6374,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.4s
[CV] END clf__colsample_bytree=0.655482225929758,
clf__learning_rate=0.08535775112327193, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=472,
clf__subsample=0.9348595952398498, preprocessor__text__max_features=5605,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.6s
[CV] END clf__colsample_bytree=0.7251662621694817,
clf__learning_rate=0.06830789829626617, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=401,
clf__subsample=0.9310771127461263, preprocessor__text__max_features=5656,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.5s
[CV] END clf__colsample_bytree=0.6723875768095741,
clf__learning_rate=0.08482713258254801, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=407,
clf__subsample=0.9261696830779366, preprocessor__text__max_features=5023,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.3s
[CV] END clf__colsample_bytree=0.9435641043312777,
clf__learning_rate=0.07416746048917083, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=478,
clf__subsample=0.8871854317792206, preprocessor__text__max_features=6374,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.2s
[CV] END clf__colsample_bytree=0.9082373304548748,
clf__learning_rate=0.0394914591143099, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=595,
clf__subsample=0.9098516441652053, preprocessor__text__max_features=8156,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.5s
[CV] END clf__colsample_bytree=0.6723875768095741,
clf__learning_rate=0.08482713258254801, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=407,
clf__subsample=0.9261696830779366, preprocessor__text__max_features=5023,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.7s
[CV] END clf__colsample_bytree=0.6723875768095741,
clf__learning_rate=0.08482713258254801, clf__max_depth=5,
clf__min_child_weight=3, clf__n_estimators=407,
clf__subsample=0.9261696830779366, preprocessor__text__max_features=5023,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 3.3s
[CV] END clf__colsample_bytree=0.9435641043312777,
clf__learning_rate=0.07416746048917083, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=478,
clf__subsample=0.8871854317792206, preprocessor__text__max_features=6374,

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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.1s
[CV] END clf__colsample_bytree=0.6710146635781563,
clf__learning_rate=0.06118223505755539, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=672,
clf__subsample=0.8943800795406954, preprocessor__text__max_features=8552,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 4.3s
[CV] END clf__colsample_bytree=0.6710146635781563,
clf__learning_rate=0.06118223505755539, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=672,
clf__subsample=0.8943800795406954, preprocessor__text__max_features=8552,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.6s
[CV] END clf__colsample_bytree=0.9488928346803378,
clf__learning_rate=0.07063787971410576, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=832,
clf__subsample=0.7574750638921985, preprocessor__text__max_features=5608,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.5s
[CV] END clf__colsample_bytree=0.9488928346803378,
clf__learning_rate=0.07063787971410576, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=832,
clf__subsample=0.7574750638921985, preprocessor__text__max_features=5608,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 7.3s
[CV] END clf__colsample_bytree=0.9488928346803378,
clf__learning_rate=0.07063787971410576, clf__max_depth=5,
clf__min_child_weight=2, clf__n_estimators=832,
clf__subsample=0.7574750638921985, preprocessor__text__max_features=5608,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.1s
[CV] END clf__colsample_bytree=0.6710146635781563,
clf__learning_rate=0.06118223505755539, clf__max_depth=5,
clf__min_child_weight=4, clf__n_estimators=672,
clf__subsample=0.8943800795406954, preprocessor__text__max_features=8552,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.8s
[CV] END clf__colsample_bytree=0.8793444431220035,
clf__learning_rate=0.04372224799304087, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=688,

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clf__subsample=0.8895982428906977, preprocessor__text__max_features=3175,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.1s
[CV] END clf__colsample_bytree=0.7389529731163864,
clf__learning_rate=0.03955755587992583, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=446,
clf__subsample=0.9495163078288587, preprocessor__text__max_features=7944,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 5.5s
[CV] END clf__colsample_bytree=0.9811172181254956,
clf__learning_rate=0.05148245905771519, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=532,
clf__subsample=0.7427726000242239, preprocessor__text__max_features=3206,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 6.2s
[CV] END clf__colsample_bytree=0.8793444431220035,
clf__learning_rate=0.04372224799304087, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=688,
clf__subsample=0.8895982428906977, preprocessor__text__max_features=3175,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.1s
[CV] END clf__colsample_bytree=0.6087372296893262,
clf__learning_rate=0.035544294110627504, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=625,
clf__subsample=0.7533832324034236, preprocessor__text__max_features=7252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.8s
[CV] END clf__colsample_bytree=0.9811172181254956,
clf__learning_rate=0.05148245905771519, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=532,
clf__subsample=0.7427726000242239, preprocessor__text__max_features=3206,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.3s
[CV] END clf__colsample_bytree=0.8793444431220035,
clf__learning_rate=0.04372224799304087, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=688,
clf__subsample=0.8895982428906977, preprocessor__text__max_features=3175,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.1s
[CV] END clf__colsample_bytree=0.7389529731163864,
clf__learning_rate=0.03955755587992583, clf__max_depth=6,

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clf__min_child_weight=3, clf__n_estimators=446,
clf__subsample=0.9495163078288587, preprocessor__text__max_features=7944,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 7.1s
[CV] END clf__colsample_bytree=0.9811172181254956,
clf__learning_rate=0.05148245905771519, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=532,
clf__subsample=0.7427726000242239, preprocessor__text__max_features=3206,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.1s
[CV] END clf__colsample_bytree=0.8036811937931454,
clf__learning_rate=0.10466671198074713, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=626,
clf__subsample=0.8830345427809765, preprocessor__text__max_features=8348,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.5s
[CV] END clf__colsample_bytree=0.6087372296893262,
clf__learning_rate=0.035544294110627504, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=625,
clf__subsample=0.7533832324034236, preprocessor__text__max_features=7252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 13.4s
[CV] END clf__colsample_bytree=0.7389529731163864,
clf__learning_rate=0.03955755587992583, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=446,
clf__subsample=0.9495163078288587, preprocessor__text__max_features=7944,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 8.9s
[CV] END clf__colsample_bytree=0.8036811937931454,
clf__learning_rate=0.10466671198074713, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=626,
clf__subsample=0.8830345427809765, preprocessor__text__max_features=8348,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.3s
[CV] END clf__colsample_bytree=0.8036811937931454,
clf__learning_rate=0.10466671198074713, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=626,
clf__subsample=0.8830345427809765, preprocessor__text__max_features=8348,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.0s
[CV] END clf__colsample_bytree=0.70816519759674,

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clf__learning_rate=0.07572999274755723, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=567,
clf__subsample=0.779779478361226, preprocessor__text__max_features=3084,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.4s
[CV] END clf__colsample_bytree=0.70816519759674,
clf__learning_rate=0.07572999274755723, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=567,
clf__subsample=0.779779478361226, preprocessor__text__max_features=3084,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 3.2s
[CV] END clf__colsample_bytree=0.6087372296893262,
clf__learning_rate=0.035544294110627504, clf__max_depth=7,
clf__min_child_weight=5, clf__n_estimators=625,
clf__subsample=0.7533832324034236, preprocessor__text__max_features=7252,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 15.6s
[CV] END clf__colsample_bytree=0.8313210409533246,
clf__learning_rate=0.058216188800656654, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=675,
clf__subsample=0.7184565210504276, preprocessor__text__max_features=6112,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.0s
[CV] END clf__colsample_bytree=0.70816519759674,
clf__learning_rate=0.07572999274755723, clf__max_depth=4,
clf__min_child_weight=2, clf__n_estimators=567,
clf__subsample=0.779779478361226, preprocessor__text__max_features=3084,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 5.6s
[CV] END clf__colsample_bytree=0.8313210409533246,
clf__learning_rate=0.058216188800656654, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=675,
clf__subsample=0.7184565210504276, preprocessor__text__max_features=6112,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 7.5s
[CV] END clf__colsample_bytree=0.8313210409533246,
clf__learning_rate=0.058216188800656654, clf__max_depth=6,
clf__min_child_weight=3, clf__n_estimators=675,
clf__subsample=0.7184565210504276, preprocessor__text__max_features=6112,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.0s

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[CV] END clf__colsample_bytree=0.6626836962246986,
clf__learning_rate=0.09209887002113967, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=438,
clf__subsample=0.8147531197284362, preprocessor__text__max_features=7784,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.8s
[CV] END clf__colsample_bytree=0.6215568537013347,
clf__learning_rate=0.08300684081491641, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=408,
clf__subsample=0.8387563167667083, preprocessor__text__max_features=3254,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 0.9s
[CV] END clf__colsample_bytree=0.6215568537013347,
clf__learning_rate=0.08300684081491641, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=408,
clf__subsample=0.8387563167667083, preprocessor__text__max_features=3254,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.3s
[CV] END clf__colsample_bytree=0.6626836962246986,
clf__learning_rate=0.09209887002113967, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=438,
clf__subsample=0.8147531197284362, preprocessor__text__max_features=7784,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.8s
[CV] END clf__colsample_bytree=0.6626836962246986,
clf__learning_rate=0.09209887002113967, clf__max_depth=7,
clf__min_child_weight=1, clf__n_estimators=438,
clf__subsample=0.8147531197284362, preprocessor__text__max_features=7784,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.5s
[CV] END clf__colsample_bytree=0.6215568537013347,
clf__learning_rate=0.08300684081491641, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=408,
clf__subsample=0.8387563167667083, preprocessor__text__max_features=3254,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 1.2s
[CV] END clf__colsample_bytree=0.6518064927669597,
clf__learning_rate=0.06673410924577343, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=551,
clf__subsample=0.898496840165229, preprocessor__text__max_features=3113,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;

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total time= 6.5s
[CV] END clf__colsample_bytree=0.6518064927669597,
clf__learning_rate=0.06673410924577343, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=551,
clf__subsample=0.898496840165229, preprocessor__text__max_features=3113,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 7.8s
[CV] END clf__colsample_bytree=0.7405681141780805,
clf__learning_rate=0.08486118886648145, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=789,
clf__subsample=0.741053915005039, preprocessor__text__max_features=3152,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 14.1s
[CV] END clf__colsample_bytree=0.8727183222229964,
clf__learning_rate=0.05734241882220991, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=829,
clf__subsample=0.7282968007953979, preprocessor__text__max_features=5140,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 14.5s
[CV] END clf__colsample_bytree=0.7758542785660505,
clf__learning_rate=0.13593353655811546, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=767,
clf__subsample=0.9225800481051004, preprocessor__text__max_features=4874,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 12.5s
[CV] END clf__colsample_bytree=0.6518064927669597,
clf__learning_rate=0.06673410924577343, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=551,
clf__subsample=0.898496840165229, preprocessor__text__max_features=3113,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.4s
[CV] END clf__colsample_bytree=0.7132881799083849,
clf__learning_rate=0.039556506107457166, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=401,
clf__subsample=0.7232042559005839, preprocessor__text__max_features=5524,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 6.9s
[CV] END clf__colsample_bytree=0.7132881799083849,
clf__learning_rate=0.039556506107457166, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=401,
clf__subsample=0.7232042559005839, preprocessor__text__max_features=5524,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),

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preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.5s
[CV] END clf__colsample_bytree=0.7132881799083849,
clf__learning_rate=0.039556506107457166, clf__max_depth=5,
clf__min_child_weight=1, clf__n_estimators=401,
clf__subsample=0.7232042559005839, preprocessor__text__max_features=5524,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.6s
[CV] END clf__colsample_bytree=0.7405681141780805,
clf__learning_rate=0.08486118886648145, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=789,
clf__subsample=0.741053915005039, preprocessor__text__max_features=3152,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 16.3s
[CV] END clf__colsample_bytree=0.8727183222229964,
clf__learning_rate=0.05734241882220991, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=829,
clf__subsample=0.7282968007953979, preprocessor__text__max_features=5140,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.4s
[CV] END clf__colsample_bytree=0.7758542785660505,
clf__learning_rate=0.13593353655811546, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=767,
clf__subsample=0.9225800481051004, preprocessor__text__max_features=4874,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 15.1s
[CV] END clf__colsample_bytree=0.8727183222229964,
clf__learning_rate=0.05734241882220991, clf__max_depth=8,
clf__min_child_weight=2, clf__n_estimators=829,
clf__subsample=0.7282968007953979, preprocessor__text__max_features=5140,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 16.6s
[CV] END clf__colsample_bytree=0.7405681141780805,
clf__learning_rate=0.08486118886648145, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=789,
clf__subsample=0.741053915005039, preprocessor__text__max_features=3152,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 18.6s
[CV] END clf__colsample_bytree=0.6342143968233303,
clf__learning_rate=0.07321675150722337, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=838,
clf__subsample=0.9187701821477035, preprocessor__text__max_features=8156,

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preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 11.0s
[CV] END clf__colsample_bytree=0.9228493737747937,
clf__learning_rate=0.1330490410923827, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=530,
clf__subsample=0.903675127366971, preprocessor__text__max_features=3242,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.7s
[CV] END clf__colsample_bytree=0.6342143968233303,
clf__learning_rate=0.07321675150722337, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=838,
clf__subsample=0.9187701821477035, preprocessor__text__max_features=8156,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.0s
[CV] END clf__colsample_bytree=0.9228493737747937,
clf__learning_rate=0.1330490410923827, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=530,
clf__subsample=0.903675127366971, preprocessor__text__max_features=3242,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.3s
[CV] END clf__colsample_bytree=0.9228493737747937,
clf__learning_rate=0.1330490410923827, clf__max_depth=3,
clf__min_child_weight=2, clf__n_estimators=530,
clf__subsample=0.903675127366971, preprocessor__text__max_features=3242,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 2.9s
[CV] END clf__colsample_bytree=0.648053099612731,
clf__learning_rate=0.030469604498470845, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=443,
clf__subsample=0.7006913646701043, preprocessor__text__max_features=5610,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 1.1s
[CV] END clf__colsample_bytree=0.7758542785660505,
clf__learning_rate=0.13593353655811546, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=767,
clf__subsample=0.9225800481051004, preprocessor__text__max_features=4874,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 19.3s
[CV] END clf__colsample_bytree=0.648053099612731,
clf__learning_rate=0.030469604498470845, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=443,

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clf__subsample=0.7006913646701043, preprocessor__text__max_features=5610,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 1.3s
[CV] END clf__colsample_bytree=0.6342143968233303,
clf__learning_rate=0.07321675150722337, clf__max_depth=7,
clf__min_child_weight=4, clf__n_estimators=838,
clf__subsample=0.9187701821477035, preprocessor__text__max_features=8156,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 14.3s
[CV] END clf__colsample_bytree=0.648053099612731,
clf__learning_rate=0.030469604498470845, clf__max_depth=3,
clf__min_child_weight=5, clf__n_estimators=443,
clf__subsample=0.7006913646701043, preprocessor__text__max_features=5610,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 2.7s
[CV] END clf__colsample_bytree=0.7788992127863147,
clf__learning_rate=0.05765978789722579, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=897,
clf__subsample=0.8454778081734515, preprocessor__text__max_features=7448,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.0s
[CV] END clf__colsample_bytree=0.8456971780195927,
clf__learning_rate=0.059824978775622484, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=477,
clf__subsample=0.8972422911158819, preprocessor__text__max_features=6438,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.4s
[CV] END clf__colsample_bytree=0.8456971780195927,
clf__learning_rate=0.059824978775622484, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=477,
clf__subsample=0.8972422911158819, preprocessor__text__max_features=6438,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.4s
[CV] END clf__colsample_bytree=0.7788992127863147,
clf__learning_rate=0.05765978789722579, clf__max_depth=5,
clf__min_child_weight=5, clf__n_estimators=897,
clf__subsample=0.8454778081734515, preprocessor__text__max_features=7448,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 9.8s
[CV] END clf__colsample_bytree=0.7788992127863147,
clf__learning_rate=0.05765978789722579, clf__max_depth=5,

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clf__min_child_weight=5, clf__n_estimators=897,
clf__subsample=0.8454778081734515, preprocessor__text__max_features=7448,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 2),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 11.8s
[CV] END clf__colsample_bytree=0.9948791864171962,
clf__learning_rate=0.03138126714901963, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=522,
clf__subsample=0.7382702360080381, preprocessor__text__max_features=7627,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 9.6s
[CV] END clf__colsample_bytree=0.9948791864171962,
clf__learning_rate=0.03138126714901963, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=522,
clf__subsample=0.7382702360080381, preprocessor__text__max_features=7627,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.3s
[CV] END clf__colsample_bytree=0.8456971780195927,
clf__learning_rate=0.059824978775622484, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=477,
clf__subsample=0.8972422911158819, preprocessor__text__max_features=6438,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 8.7s
[CV] END clf__colsample_bytree=0.9948791864171962,
clf__learning_rate=0.03138126714901963, clf__max_depth=8,
clf__min_child_weight=5, clf__n_estimators=522,
clf__subsample=0.7382702360080381, preprocessor__text__max_features=7627,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.2s
[CV] END clf__colsample_bytree=0.6084416254716793,
clf__learning_rate=0.1398849662740499, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=341,
clf__subsample=0.8159349938421913, preprocessor__text__max_features=6152,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.6s
[CV] END clf__colsample_bytree=0.6084416254716793,
clf__learning_rate=0.1398849662740499, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=341,
clf__subsample=0.8159349938421913, preprocessor__text__max_features=6152,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 4.0s
[CV] END clf__colsample_bytree=0.7470824320049311,

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clf__learning_rate=0.14398670791819268, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=702,
clf__subsample=0.8002645947686207, preprocessor__text__max_features=5566,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 3.9s
[CV] END clf__colsample_bytree=0.7470824320049311,
clf__learning_rate=0.14398670791819268, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=702,
clf__subsample=0.8002645947686207, preprocessor__text__max_features=5566,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.0s
[CV] END clf__colsample_bytree=0.7622551017523895,
clf__learning_rate=0.12441056196942195, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=360,
clf__subsample=0.8716278273356364, preprocessor__text__max_features=7641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 2.2s
[CV] END clf__colsample_bytree=0.7470824320049311,
clf__learning_rate=0.14398670791819268, clf__max_depth=4,
clf__min_child_weight=1, clf__n_estimators=702,
clf__subsample=0.8002645947686207, preprocessor__text__max_features=5566,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=False;
total time= 4.1s
[CV] END clf__colsample_bytree=0.7622551017523895,
clf__learning_rate=0.12441056196942195, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=360,
clf__subsample=0.8716278273356364, preprocessor__text__max_features=7641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 1.8s
[CV] END clf__colsample_bytree=0.7622551017523895,
clf__learning_rate=0.12441056196942195, clf__max_depth=3,
clf__min_child_weight=4, clf__n_estimators=360,
clf__subsample=0.8716278273356364, preprocessor__text__max_features=7641,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 1.8s
[CV] END clf__colsample_bytree=0.6120405541870441,
clf__learning_rate=0.04369590219495429, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=473,
clf__subsample=0.7597418719264475, preprocessor__text__max_features=4893,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 1.0s

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[CV] END clf__colsample_bytree=0.7853307443349373,
clf__learning_rate=0.07112731735950857, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=663,
clf__subsample=0.7981503138763486, preprocessor__text__max_features=7400,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.5s
[CV] END clf__colsample_bytree=0.6084416254716793,
clf__learning_rate=0.1398849662740499, clf__max_depth=7,
clf__min_child_weight=2, clf__n_estimators=341,
clf__subsample=0.8159349938421913, preprocessor__text__max_features=6152,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 5.7s
[CV] END clf__colsample_bytree=0.6120405541870441,
clf__learning_rate=0.04369590219495429, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=473,
clf__subsample=0.7597418719264475, preprocessor__text__max_features=4893,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 1.2s
[CV] END clf__colsample_bytree=0.8758219724038452,
clf__learning_rate=0.1433036307987842, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=593,
clf__subsample=0.7636621196255322, preprocessor__text__max_features=4856,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 8.8s
[CV] END clf__colsample_bytree=0.7853307443349373,
clf__learning_rate=0.07112731735950857, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=663,
clf__subsample=0.7981503138763486, preprocessor__text__max_features=7400,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 9.6s
[CV] END clf__colsample_bytree=0.6120405541870441,
clf__learning_rate=0.04369590219495429, clf__max_depth=3,
clf__min_child_weight=3, clf__n_estimators=473,
clf__subsample=0.7597418719264475, preprocessor__text__max_features=4893,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 1.9s
[CV] END clf__colsample_bytree=0.8758219724038452,
clf__learning_rate=0.1433036307987842, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=593,
clf__subsample=0.7636621196255322, preprocessor__text__max_features=4856,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;

```

```

total time= 9.9s
[CV] END clf__colsample_bytree=0.8758219724038452,
clf__learning_rate=0.1433036307987842, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=593,
clf__subsample=0.7636621196255322, preprocessor__text__max_features=4856,
preprocessor__text__min_df=3, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=False;
total time= 10.7s
[CV] END clf__colsample_bytree=0.7853307443349373,
clf__learning_rate=0.07112731735950857, clf__max_depth=8,
clf__min_child_weight=4, clf__n_estimators=663,
clf__subsample=0.7981503138763486, preprocessor__text__max_features=7400,
preprocessor__text__min_df=2, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=False, preprocessor__text__sublinear_tf=True;
total time= 12.1s
[CV] END clf__colsample_bytree=0.995042902073155,
clf__learning_rate=0.08740564895769953, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=664,
clf__subsample=0.8135965937542158, preprocessor__text__max_features=6132,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 10.3s
[CV] END clf__colsample_bytree=0.995042902073155,
clf__learning_rate=0.08740564895769953, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=664,
clf__subsample=0.8135965937542158, preprocessor__text__max_features=6132,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.6s
[CV] END clf__colsample_bytree=0.995042902073155,
clf__learning_rate=0.08740564895769953, clf__max_depth=8,
clf__min_child_weight=1, clf__n_estimators=664,
clf__subsample=0.8135965937542158, preprocessor__text__max_features=6132,
preprocessor__text__min_df=1, preprocessor__text__ngram_range=(1, 1),
preprocessor__text__smooth_idf=True, preprocessor__text__sublinear_tf=True;
total time= 11.5s
Mejores hiperparámetros encontrados:
{'clf__colsample_bytree': np.float64(0.6179179178391386), 'clf__learning_rate': np.float64(0.10872235330739578), 'clf__max_depth': 5, 'clf__min_child_weight': 1, 'clf__n_estimators': 627, 'clf__subsample': np.float64(0.9876645601666193), 'preprocessor__text__max_features': 6606, 'preprocessor__text__min_df': 2, 'preprocessor__text__ngram_range': (1, 1), 'preprocessor__text__smooth_idf': True, 'preprocessor__text__sublinear_tf': False}
F1 en validation: 0.7613636363636364

```

Bueno, ahora tocamos los valores de la regresión lineal modificando el TF-IDF con un 0.76. Me hace preguntarme si entonces esos parámetros del TF-IDF son lo que me trunca el modelo. Me estuve fijando mucho en la cantidad de features que genera el TF-IDF, acá encontró su mejor

con 'preprocessor__text__max_features': 6606, que es un número bastante más alto de lo que imaginaba.

```
[8]: from pathlib import Path

submissions_dir = Path('../resultados')
submissions_dir.mkdir(parents=True, exist_ok=True)
submission_path = submissions_dir / 'xgboost.csv'

y_test_pred = best_pipeline_xgb.predict(X_test_combined)

submission = pd.DataFrame(
{
    'id': test_df['id'],
    'target': y_test_pred
})
)

submission.to_csv(submission_path, index=False)

print(f'Submission guardada en: {submission_path}')
print(f'Total de filas: {len(submission)}')
print('Distribución de predicciones:')
print(submission['target'].value_counts().sort_index())
```

```
NameError                                                 Traceback (most recent call last)
Cell In[8], line 7
      4 submissions_dir.mkdir(parents=True, exist_ok=True)
      5 submission_path = submissions_dir / 'xgboost.csv'
----> 7 y_test_pred = best_pipeline_xgb.predict(X_test_combined)
      8 submission = pd.DataFrame(
      9     {
     10         'id': test_df['id'],
     11         'target': y_test_pred
     12     }
     13 )
     14 )
     15 submission.to_csv(submission_path, index=False)

NameError: name 'best_pipeline_xgb' is not defined
```