4_train_classifiers_example

March 13, 2023

1 Train classification models for misinformation detection

1.1 Initialize

```
[2]: ######################################################
     # Import libraries
     ######################################################

     import pandas as pd
     import numpy as np
     import regex as re
     from collections import Counter
     from datetime import date
     from tqdm import tqdm
     import emoji

     import nltk
     from nltk import word_tokenize, sent_tokenize
     from nltk.corpus import stopwords
     from nltk.stem import WordNetLemmatizer
     nltk.download('punkt')
     nltk.download('stopwords')
     nltk.download('wordnet')

     stemmer = WordNetLemmatizer()

     from pandas.plotting import scatter_matrix
     import matplotlib.pyplot as plt

     import joblib
     import csv

     from sklearn.datasets import load_files
     from sklearn.feature_extraction.text import CountVectorizer, TfidfVectorizer

     from sklearn.metrics import classification_report, confusion_matrix,␣
      ↪accuracy_score
     from sklearn.tree import DecisionTreeClassifier
```

```python
from sklearn.neighbors import KNeighborsClassifier
from sklearn.ensemble import RandomForestClassifier
from sklearn.naive_bayes import MultinomialNB
from sklearn.linear_model import LogisticRegression
from sklearn.neural_network import MLPClassifier
from sklearn.svm import SVC
from sklearn.model_selection import cross_val_score, cross_val_predict,␣
 ↪train_test_split, KFold

from imblearn.over_sampling import RandomOverSampler
from imblearn.under_sampling import RandomUnderSampler

import glob
```

```
[nltk_data] Downloading package punkt to /home/app59/nltk_data…
[nltk_data]    Package punkt is already up-to-date!
[nltk_data] Downloading package stopwords to /home/app59/nltk_data…
[nltk_data]    Package stopwords is already up-to-date!
[nltk_data] Downloading package wordnet to /home/app59/nltk_data…
[nltk_data]    Package wordnet is already up-to-date!
```

1.2 Load & inspect data

1.2.1 Define filepaths

```python
[3]: thisday = date.today().strftime("%m%d%y")

     # Multiple labeled data files for each myth
     fvg_fps = [fp for fp in glob.glob('../data/samples/5G/*') if
                (fp.endswith('labeled.csv'))
               ]
     neg_fvg_fps = [fp for fp in glob.glob('../data/samples/5G/negative_cases/*') if
                (fp.endswith('labeled.csv'))
               ]

     msq_fps = [fp for fp in glob.glob('../data/samples/mosquitoes/*') if
                (fp.endswith('labeled.csv'))
               ]
     neg_msq_fps = [fp for fp in glob.glob('../data/samples/5G/negative_cases/*') if
                (fp.endswith('labeled.csv'))
               ]

     fvg_vec_fp = f'../models/vectorizer_5G_{str(thisday)}.joblib'
     msq_vec_fp = f'../models/vectorizer_mosquitoes_{str(thisday)}.joblib'
```

1.2.2 Load & rename data

```python
[4]: # For multiple files holding labeled data, load each one and add to empty DF

     # Mosquitoes
     msq_df = pd.DataFrame() # initialize
     for fp in msq_fps:
         temp = pd.read_csv(fp, low_memory=False) # read file
         msq_df = pd.concat([msq_df, temp]) # add positive tweets to main DF
     #add negative tweets
     for fp in neg_fvg_fps:
         temp = pd.read_csv(fp, low_memory=False) # read file
         temp = temp[temp.myth_score == 1.0] # keep only negative tweets with score␣
      ↪of 1.0 for other myth
         temp = temp.assign(myth_score = 0, myth_supports_score = 0) # change myth␣
      ↪scores to zero
         temp = temp.assign(is_myth = "no", is_myth_supports = "no") # change myth␣
      ↪labels to "no"
         msq_df = pd.concat([msq_df, temp]) # add negative tweets to main df


     # 5G
     fvg_df = pd.DataFrame() # initialize
     for fp in fvg_fps:
         temp = pd.read_csv(fp, low_memory=False) # read file
         fvg_df = pd.concat([fvg_df, temp]) # add positive tweets to main DF
     #add negative tweets
     for fp in neg_fvg_fps:
         temp = pd.read_csv(fp, low_memory=False) # read file
         temp = temp[temp.myth_score == 1.0] # keep only negative tweets with score␣
      ↪of 1.0 for other myth
         temp = temp.assign(myth_score = 0, myth_supports_score = 0) # change myth␣
      ↪scores to zero
         temp = temp.assign(is_myth = "no", is_myth_supports = "no") # change myth␣
      ↪labels to "no"
         fvg_df = pd.concat([fvg_df, temp]) # add negative tweets to main df


     # Rename each DF's myth columns for clarity
     msq_df = msq_df.reset_index(drop=True).rename(
         copy = False, columns =
         {'is_myth': 'msq_is_myth', 'myth_score': 'msq_myth_score',
          'is_myth_supports': 'msq_is_myth_supports', 'myth_supports_score':␣
      ↪'msq_myth_supports_score'})

     fvg_df = fvg_df.reset_index(drop=True).rename(
         copy = False, columns =
         {'is_myth': 'fvg_is_myth', 'myth_score': 'fvg_myth_score',
```

```
      'is_myth_supports': 'fvg_is_myth_supports', 'myth_supports_score':␣
  ↪'fvg_myth_supports_score'})

msq_df.tail(10)
```

[4]:   tweet_id   text \
     1238 1.256274e+18 @USER01 @USER02 #Covid19 was created in a Cana…
     1239 1.270119e+18 The #Covid scare was an engineered hoax. Someo…
     1240 1.279824e+18 Sir Richard Dearlove stressed the fact that th…
     1241 1.237855e+18 @USER01 Except, this time they have the engine…
     1242 1.281818e+18 @USER01 @USER02 :confused_face::thinking_face:…
     1243 1.236012e+18 Former IDF inteligence officer and expert on b…
     1244 1.252298e+18 URL01 Removed Bioweapon 911- looking …
     1245 1.250571e+18 @USER01 @USER02 Gates & Fauci are behind t…
     1246 1.246429e+18 Weapon's Name: Human Spit Bio Gun \nWeapon cla…
     1247 1.251635e+18 Did China Just Admit the Obama Administration …

          msq_is_myth msq_myth_score msq_is_myth_supports msq_myth_supports_score
     1238   no   0.0   no   0.0
     1239   no   0.0   no   0.0
     1240   no   0.0   no   0.0
     1241   no   0.0   no   0.0
     1242   no   0.0   no   0.0
     1243   no   0.0   no   0.0
     1244   no   0.0   no   0.0
     1245   no   0.0   no   0.0
     1246   no   0.0   no   0.0
     1247   no   0.0   no   0.0

1.2.3 Summarize the numerical data

```
[5]: # Look at the number of instances of each is_myth class distribution
     print(msq_df.groupby('msq_is_myth').size())
     print()
     print(fvg_df.groupby('fvg_is_myth').size())
     print()

     # Look at the number of instances of each is_myth_supports class distribution
     print(msq_df.groupby('msq_is_myth_supports').size())
     print()
     print(fvg_df.groupby('fvg_is_myth_supports').size())
     print()
```

```
msq_is_myth
no        678
unsure      7
yes       563
```

```
dtype: int64

fvg_is_myth
no         526
unsure      11
yes        587
dtype: int64

msq_is_myth_supports
no         930
unsure     254
yes         64
dtype: int64

fvg_is_myth_supports
no         861
unsure     133
yes        130
dtype: int64
```

1.3 Preprocess tweet text

1.3.1 Tweet Preprocessing

```python
[6]: def process_tweets(tweet):
    '''
    Preprocesses raw text of a tweet, skipping any retweets.
    Steps: lower-casing; removing punctuation, newlines, URLs, usernames, and
    ↪emojis;
    stripping whitespace, replacing hashtags, and finally, lemmatization.

    args:
        tweet: raw text of a tweet

    returns:
        string: cleaned tweet text
    '''

    # Skip retweets and non-strings
    retweet_pattern = r'^RT\s+' # recognize retweets by starting with 'RT'
    if not isinstance(tweet, str) or re.search(retweet_pattern, tweet):
        return ''

    # Convert to lowercase
    tweet = tweet.lower()
```

```python
    # Remove punctuation with regex: match all punctuation (\p{P}) and symbols␣
↪(\p{S}),
    # then check that it is not a wasn't a hashtag or @-symbol using a negative␣
↪look-behind.
    # Source: https://github.com/georgetown-mdi/processing-jobs/blob/master/
↪pyspark/shared/text_helpers.py
    punc_pattern = r"[\p{P}\p{S}](?<![@#\'\/:])"
    tweet = re.sub(punc_pattern, "", tweet)

    # Repair hashtag and remove newline character
    # from text_helpers.tweet_text_cleanup
    tweet = tweet.replace("# ", "#")
    tweet = tweet.replace("\n", " ")

    # remove URLs and @mentions
    # Simple regular expression to match URLs starting with `https` or `http`
    # More complex regex an be found here: https://mathiasbynens.be/demo/
↪url-regex
    url_regex = r"https?://\S*"
    # Regex to match mentions
    mention_regex = r"@\S*"
    tweet = re.sub(url_regex, "", tweet)
    tweet = re.sub(mention_regex, "", tweet)

    # Remove additional white spaces
    whitespace_pattern = r'\s+'
    tweet = re.sub(whitespace_pattern, ' ', tweet) # strip whitespaces in␣
↪between words
    tweet = tweet.strip() # strip whitespaces at start & end

    # Replace #word with word
    tweet = re.sub(r'#([^\s]+)', r'\1', tweet)

    # Remove emojis
    tweet = emoji.get_emoji_regexp().sub(u'', tweet)

    # Lemmatization
    tweet = tweet.split()
    tweet = ' '.join([stemmer.lemmatize(word) for word in tweet])

    return tweet


msq_df['text_cleaned'] = msq_df['text'].apply(lambda x: process_tweets(x))
fvg_df['text_cleaned'] = fvg_df['text'].apply(lambda x: process_tweets(x))
```

1.3.2 Vectorize texts

```
[7]: # Use TFIDF weighted DTM because does better overall than unweighted
     #vectorizer = CountVectorizer(max_features=10000, min_df=1, max_df=0.8,
      ↪stop_words=stopwords.words('english')) # DTM
     msq_vectorizer = TfidfVectorizer(max_features=10000, min_df=1, max_df=0.8,
      ↪stop_words=stopwords.words('english')) # TFIDF
     fvg_vectorizer = TfidfVectorizer(max_features=10000, min_df=1, max_df=0.8,
      ↪stop_words=stopwords.words('english')) # TFIDF


     # creates sparse DTM X
     # use X.toarray() to get with zero representation

     dis_tweets, rem_tweets, wth_tweets, fvg_tweets, msq_tweets = [], [], [], [], []
      ↪# empty list to add tweets to
     msq_df['text_cleaned'].apply(lambda x: msq_tweets.append(x)) # add tweet from
      ↪each row of DF
     fvg_df['text_cleaned'].apply(lambda x: fvg_tweets.append(x)) # add tweet from
      ↪each row of DF


     X_msq = msq_vectorizer.fit_transform(msq_tweets)
     X_fvg = fvg_vectorizer.fit_transform(fvg_tweets)

     #save vectorizers
     joblib.dump(fvg_vectorizer, open(fvg_vec_fp, "wb"))
     joblib.dump(msq_vectorizer, open(msq_vec_fp, "wb"))


     print('Number of features in vectorizer (total vocabulary):',
      ↪len(msq_vectorizer.get_feature_names()))
     print()

     print(msq_vectorizer.get_feature_names()[::100]) # get every 100th word
```

Number of features in vectorizer (total vocabulary): 4624

```
['0206796316', '810', 'agenda21', 'anti', 'awafaucet', 'bill', 'breakthechain',
'catholictwitter', 'class', 'congratulation', 'coronavirustruth', 'crumble',
'democracy', 'distrust', 'eat', 'esg', 'facts', 'flyer', 'generated', 'h1n1',
'highcontainment', 'illness', 'installing', 'kentucky', 'lilo', 'mandate',
'michiganmuniland', 'mudslide', 'nile', 'oracle', 'pensiveface', 'policeman',
'program', 'ra', 'related', 'risky', 'screwed', 'shutdown', 'sort', 'stick',
'surveillance', 'think', 'trending', 'unproven', 'warm',
'womanfacepalmingmediumlightskintone', 'zoom']
```

/home/app59/anaconda3/lib/python3.7/site-
packages/sklearn/utils/deprecation.py:87: FutureWarning: Function
get_feature_names is deprecated; get_feature_names is deprecated in 1.0 and will

```
be removed in 1.2. Please use get_feature_names_out instead.
  warnings.warn(msg, category=FutureWarning)
```

1.3.3 Specify the data

```python
[ ]: msq_df_is_myth = msq_df[['text_cleaned','msq_is_myth']]
     fvg_df_is_myth = fvg_df[['text_cleaned','fvg_is_myth']]

     msq_df_is_myth_supports = msq_df[['text_cleaned','msq_is_myth_supports']].copy()
     fvg_df_is_myth_supports = fvg_df[['text_cleaned','fvg_is_myth_supports']].copy()
```

1.3.4 Convert No/Yes to [0,1]

```python
[9]: def no_yes_convert(convert_df, column_name, has_unsure = False):
         '''
         args
             convert_df: df containing column to convert
             column_name: column to convert from 'yes','no','unsure' to float.␣
     ↪Scoring scheme:
                 no: 0
                 unsure: 0.5
                 yes: 1
             has_unsure: boolean, indicates whether convert_df has 'unsure' in␣
     ↪column_name
         '''

         # Already converted to float
         if convert_df[column_name].dtype == 'float64':
             return convert_df

         new_df = convert_df.loc[:, convert_df.columns != column_name]

         for num in range(0,len(new_df)):
             row_index = new_df.index[num]

             if convert_df.loc[num,column_name] == 'no' or convert_df.
     ↪loc[num,column_name] == 'unsure':
                 new_df.loc[row_index,column_name] = 0.0

             elif convert_df.loc[num,column_name] == 'yes':
                 new_df.loc[row_index,column_name] = 1.0

     #          elif has_unsure == True and convert_df.loc[num,column_name] ==␣
     ↪'unsure':
     #              new_df.loc[row_index,column_name] = 0.5

         return new_df
```

```
msq_df_is_myth = no_yes_convert(msq_df_is_myth,'msq_is_myth')
fvg_df_is_myth = no_yes_convert(fvg_df_is_myth,'fvg_is_myth')
```

1.4 Setup for modeling

1.4.1 Balance x_train, y_train

```python
[10]: def resample_data(X_train, Y_train, undersample = False, sampling_ratio = 0.5):
          """
          Args:
              X_train: X training data
              Y_train: Y training data
              undersample: boolean for over or undersampling
              sampling_ratio: ratio of minority to total

              archived/not used:
              sampling_strategy: strategy for resampled distribution
                  if oversample: 'majority' makes minority = to majority
                  if undersample: 'minority' makes majority = to minority

          Returns:
              X_balanced: predictors at balanced ratio
              Y_balanced: outcomes at balanced ratio
          """

          if undersample == True:
              #TODO: Implement real_sampling_ratio for undersample
              undersample = RandomUnderSampler(sampling_strategy=sampling_ratio)
              X_balanced, Y_balanced = undersample.fit_resample(X_train, Y_train)
          else:
              # real_sampling_ratio is the ratio of the minority to majority, keeping␣
       ↪majority constant
              real_sampling_ratio = ((sampling_ratio * len(Counter(Y_train)))/
       ↪(1-sampling_ratio))/len(Counter(Y_train))
              oversample = RandomOverSampler(sampling_strategy=real_sampling_ratio)
              X_balanced, Y_balanced = oversample.fit_resample(X_train, Y_train)

          print(f'Y_train: {Counter(Y_train)}\nY_resample: {Counter(Y_balanced)}')

          return X_balanced, Y_balanced
```

```python
[11]: def compute_predictions(text, vectorizer_model, class_model):
          '''
          Predicts the label for an input text using a given model trained to␣
       ↪classify the texts.
```

```
    Uses vectorizer_model to restrict the vocab of the input text so it's␣
↪consistent with vocab in class_model (avoids errors).

    Args:
        text: preprocessed text in format of list of sentences, each a str or␣
↪list of tokens
        vectorizer_model: fitted text vectorizer
        class_model: trained classification model
    Returns:
        label: label for text predicted by model, false for tie
        prob: probability for label
    '''

    X = vectorizer_model.transform(text) # create TF-IDF-weighted DTM from text
    try:
        probabilities = class_model.predict_proba(X)
    except:
        return

    label = 'no'
    prob_no = probabilities[0][0]
    prob_yes = probabilities[0][1]

    # predicted label is one with greater probability
    if probabilities[0][0] < probabilities[0][1]:
        label = 'yes'

    return label, prob_yes, prob_no
```

1.4.2 Setup 10-fold cross validation for model evaluation

```
[12]: # Define test options for k-fold CV
      num_folds = 10
      seed = 3
      scoring='f1_weighted' # set scoring metric (not used here)

      def show_kfold_output(models,
                            X,
                            Y,
                            df,
                            text_col,
                            vectorizer,
                            num_folds = num_folds,
                            random_state = seed,
                            shuffle = True):
          '''
```

```python
    Estimates the accuracy of different model algorithms, adds results to a
↪results array and returns.
    Prints the accuracy results: averages and std.
    Uses cross_val_predict, which unlike cross_val_score cannot define scoring
↪option/evaluation metric.

    Args:
        models: list of (name, model) tuples
        X: predictors
        Y: outcomes
        num_folds: Split data randomly into num_folds parts: (num_folds-1) for
↪training, 1 for scoring
        random_state: seed
        shuffle:

    Returns:
        results: list of model results
        names: list of model names (matches results)

    Source:
        https://stackoverflow.com/questions/40057049/
↪using-confusion-matrix-as-scoring-metric-in-cross-validation-in-scikit-learn
    '''

    results = []
    names = []

    for name, model in models:
        # Print name of model
        print(f'{name}:')
        print()

        # Setup model options
        kfold = KFold(
            n_splits=num_folds,
            random_state=seed,
            shuffle=True)

        # Get kfold results
        cv_results = cross_val_predict(
            model.fit(X, Y),
            X,
            Y,
            cv=kfold,
            #scoring=scoring,
            n_jobs=-1) # use all cores = faster
```

```python
        # Add results and name of each algorithm to the model array
        results.append(cv_results)
        names.append(name)

        # Validation step: Predict class probabilities in labeled data, compare␣
↪to actual labels
        try:
            tqdm.pandas(desc="Computing predictions")
            df[['prediction', 'prediction_prob_yes', 'prediction_prob_no']] =␣
↪df[text_col].progress_apply(
            lambda text: pd.Series(compute_predictions([sent for sent in␣
↪sent_tokenize(text)], vectorizer, model)))
            print("Distribution of predicted labels:\n", df['prediction'].
↪value_counts()) # show predicted distribution, compare to labeled␣
↪distribution
            print()
        except:
            pass

        # Print results
        print(f'Mean (std):\t {round(cv_results.mean(),4)} ({round(cv_results.
↪std(),4)})')
        print(f'Accuracy:\t', {round(accuracy_score(Y, cv_results)), 4})
        print()
        print('Confusion matrix:\n', confusion_matrix(Y, cv_results))
        print()
        print('Report:\n', classification_report(Y, cv_results))
        print()

    # Return arrays
    return results, names
```

1.5   Evaluate algorithms: 5G myths

1.5.1   Prepare training and validation data

```python
[23]: # Separate training and final validation data set. First remove class
      # label from data (X). Setup target class (Y)
      # Then make the validation set 10% of the entire
      # set of labeled data (X_validate, Y_validate)

      valueArray = fvg_df_is_myth.values
      Y = valueArray[:,1]
      Y = Y.astype('float')
      test_size = 0.2
      seed = 3
      X_train, X_validate, Y_train, Y_validate = train_test_split(
```

```
    X_fvg,
    Y,
    test_size=test_size,
    random_state=seed)

print(f'Y_train Distribution: {Counter(Y_train).most_common()}')
```

Y_train Distribution: [(1.0, 466), (0.0, 433)]

```
[24]: #######################################################
      # Oversample to desirable ratio
      #######################################################

      sampling_ratio = 0.5 # ratio of minority to total cases
      undersample = False # whether to undersample or oversample

      X_balanced, Y_balanced = resample_data(
          X_fvg, #X_train,
          Y, #Y_train,
          undersample=undersample,
          sampling_ratio=sampling_ratio)
```

Y_train: Counter({1.0: 587, 0.0: 537})
Y_resample: Counter({1.0: 587, 0.0: 587})

1.5.2 10-Fold Cross Validation: 5G myths

```
[25]: # Use different algorithms to build models
      models = []
      models.append(('K-Nearest Neighbors (KNN)', KNeighborsClassifier()))
      models.append(('Random Forest (RF)', RandomForestClassifier(n_estimators=40,␣
        ↪random_state=seed)))
      models.append(('Decision Tree (DT)', DecisionTreeClassifier(random_state=seed)))
      models.append(('Multinomial Naive Bayes (MNB)', MultinomialNB()))
      models.append(('Logistic Regression (LR)',␣
        ↪LogisticRegression(random_state=seed)))
      models.append(('Support Vector Machine (SVM)', SVC(gamma='auto')))
      models.append(('Multi-Layer Perceptron (MLP)', MLPClassifier(max_iter=100,␣
        ↪activation='relu')))

      # vectorizer = TfidfVectorizer(max_features=10000, min_df=1, max_df=0.8,␣
        ↪stop_words=stopwords.words('english')) # TFIDF Vectorizer
      # vectorizer.fit(fvg_tweets)

      # Baseline: distribution of labeled data
      print(f'Distribution of labeled disinfectants tweets: {Counter(Y_balanced).
        ↪most_common()}')
```

```
print()

# Evaluate algorithms using 10-fold cross validation
results, names = show_kfold_output(models=models,
                                   X=X_balanced,
                                   Y=Y_balanced,
                                   df=fvg_df,
                                   text_col='text_cleaned',
                                   vectorizer=fvg_vectorizer)
```

Distribution of labeled disinfectants tweets: [(1.0, 587), (0.0, 587)]

K-Nearest Neighbors (KNN):

Computing predictions: 100%| | 1124/1124 [00:02<00:00, 434.41it/s]

Distribution of predicted labels:
 yes   661
no   463
Name: prediction, dtype: int64

Mean (std):   0.5971 (0.4905)
Accuracy: {1.0, 4}

Confusion matrix:
 [[449 138]
 [24 563]]

Report:
                precision   recall f1-score   support

         0.0   0.95   0.76   0.85   587
         1.0   0.80   0.96   0.87   587

    accuracy   0.86   1174
   macro avg   0.88   0.86   0.86   1174
weighted avg   0.88   0.86   0.86   1174

Random Forest (RF):

Computing predictions: 100%| | 1124/1124 [00:07<00:00, 153.13it/s]

Distribution of predicted labels:
 yes   587
no   537
Name: prediction, dtype: int64

```
Mean (std):       0.5085 (0.4999)
Accuracy:         {1.0, 4}

Confusion matrix:
 [[559  28]
 [ 18 569]]

Report:
              precision    recall  f1-score   support

         0.0       0.97      0.95      0.96       587
         1.0       0.95      0.97      0.96       587

    accuracy                           0.96      1174
   macro avg       0.96      0.96      0.96      1174
weighted avg       0.96      0.96      0.96      1174


Decision Tree (DT):


Computing predictions: 100%|      | 1124/1124 [00:01<00:00, 622.66it/s]
Computing predictions:   7%|      | 79/1124 [00:00<00:01, 785.30it/s]

Distribution of predicted labels:
 yes    587
no      537
Name: prediction, dtype: int64

Mean (std):       0.5009 (0.5)
Accuracy:         {1.0, 4}

Confusion matrix:
 [[561  26]
 [ 25 562]]

Report:
              precision    recall  f1-score   support

         0.0       0.96      0.96      0.96       587
         1.0       0.96      0.96      0.96       587

    accuracy                           0.96      1174
   macro avg       0.96      0.96      0.96      1174
weighted avg       0.96      0.96      0.96      1174


Multinomial Naive Bayes (MNB):
```

```
Computing predictions: 100%|     | 1124/1124 [00:01<00:00, 693.94it/s]
Computing predictions:   0%|          | 0/1124 [00:00<?, ?it/s]

Distribution of predicted labels:
 yes    607
no     517
Name: prediction, dtype: int64

Mean (std):     0.5426 (0.4982)
Accuracy:       {1.0, 4}

Confusion matrix:
 [[517  70]
 [ 20 567]]

Report:
              precision    recall  f1-score   support

         0.0       0.96      0.88      0.92       587
         1.0       0.89      0.97      0.93       587

    accuracy                           0.92      1174
   macro avg       0.93      0.92      0.92      1174
weighted avg       0.93      0.92      0.92      1174


Logistic Regression (LR):


Computing predictions: 100%|     | 1124/1124 [00:01<00:00, 767.05it/s]

Distribution of predicted labels:
 yes    594
no     530
Name: prediction, dtype: int64

Mean (std):     0.4872 (0.4998)
Accuracy:       {1.0, 4}

Confusion matrix:
 [[559  28]
 [ 43 544]]

Report:
              precision    recall  f1-score   support

         0.0       0.93      0.95      0.94       587
         1.0       0.95      0.93      0.94       587
```

```
      accuracy                                    0.94      1174
     macro avg        0.94      0.94      0.94      1174
  weighted avg        0.94      0.94      0.94      1174
```

Support Vector Machine (SVM):

```
Computing predictions:   0%|            | 0/1124 [00:00<?,
?it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
```

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 6%| | 71/1124 [00:00<00:01,
709.96it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

```
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
```

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 13%| | 141/1124 [00:00<00:01,
706.71it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 19%| | 212/1124 [00:00<00:01,
706.87it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

34

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 25%| | 281/1124 [00:00<00:01,
700.82it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 31%| | 350/1124 [00:00<00:01,
694.64it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 37%| | 414/1124 [00:00<00:01,
674.15it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 43%| | 478/1124 [00:00<00:00,
662.96it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 48%| | 542/1124 [00:00<00:00,
654.48it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 54%| | 611/1124 [00:00<00:00,
664.40it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 60%| | 675/1124 [00:01<00:00,
653.38it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 66%| | 744/1124 [00:01<00:00,
662.81it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 72%| | 813/1124 [00:01<00:00,
669.63it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 78%| | 880/1124 [00:01<00:00,
654.08it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

```
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
```

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 84%| | 945/1124 [00:01<00:00,
648.40it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 90%| | 1010/1124 [00:01<00:00,
642.26it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 96%| | 1078/1124 [00:01<00:00,
650.71it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 100%| | 1124/1124 [00:01<00:00, 616.44it/s]

Mean (std):   0.5997 (0.49)
Accuracy: {0.0, 4}

Confusion matrix:
 [[220 367]
 [250 337]]

Report:
              precision   recall f1-score   support

         0.0   0.47   0.37   0.42   587
         1.0   0.48   0.57   0.52   587

    accuracy   0.47   1174
   macro avg   0.47   0.47   0.47   1174
weighted avg   0.47   0.47   0.47   1174

Multi-Layer Perceptron (MLP):

Computing predictions: 100%| | 1124/1124 [00:01<00:00, 744.83it/s]

Distribution of predicted labels:
 yes   587
no   537
Name: prediction, dtype: int64

Mean (std):   0.4974 (0.5)
Accuracy: {1.0, 4}

Confusion matrix:
 [[544 43]
 [46 541]]

Report:
              precision   recall f1-score   support

0.0	0.92	0.93	0.92	587
1.0	0.93	0.92	0.92	587
accuracy			0.92	1174
macro avg	0.92	0.92	0.92	1174
weighted avg	0.92	0.92	0.92	1174

```python
[26]: # Save best model - 5G

# Model file output format
best_model_suffix = "LR" # this model has best accuracy
thisday = date.today().strftime("%m%d%y")

MYTH_NAME_mod_fp = f'../models/
 ↪tweet_classifier_5G_{str(best_model_suffix)}_{str(thisday)}.joblib'

best_model = LogisticRegression(random_state=seed).fit(X_train, Y_train)

joblib.dump(best_model, MYTH_NAME_mod_fp)
```
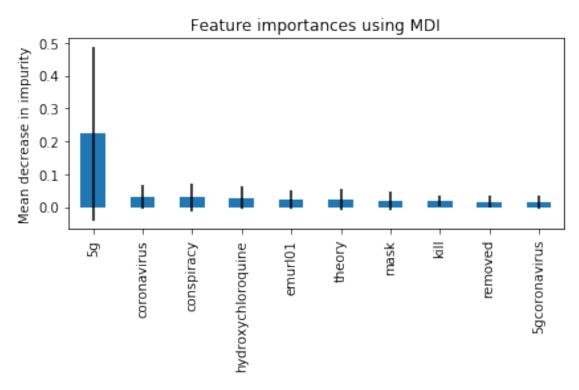
```
[26]: ['../models/tweet_classifier_5G_LR_042622.joblib']
```

1.5.3 Inspect featured keywords (Random Forest)

```python
[27]: # Get feature names
# feature_names = [f"feature {i}" for i in range(X_balanced.shape[1])]
feature_names = fvg_vectorizer.get_feature_names_out()
rf_model = RandomForestClassifier(n_estimators=40, random_state=seed).
 ↪fit(X_balanced, Y_balanced)

# Get feature importances from the randome forest model
importances = rf_model.feature_importances_
std = np.std(
    [tree.feature_importances_ for tree in rf_model.estimators_], axis=0)

print(type(feature_names))
print(type(X_balanced))

print(X_balanced.shape)
print(feature_names.shape)

# Build dataframe
forest_importances = pd.DataFrame()
forest_importances["importances"] = importances
```

```
forest_importances["std"] = std
forest_importances.index = feature_names
forest_importances = forest_importances.sort_values(
    by=["importances", "std"], ascending=False)


# See top k important features
top_k = 10
top_k_forest_importances = forest_importances.head(top_k)
print(list(top_k_forest_importances.index))
```

```
<class 'numpy.ndarray'>
<class 'scipy.sparse.csr.csr_matrix'>
(1174, 5086)
(5086,)
['5g', 'coronavirus', 'conspiracy', 'hydroxychloroquine', 'emurl01', 'theory',
'mask', 'kill', 'removed', '5gcoronavirus']
```

[28]:
```
fig, ax = plt.subplots()
top_k_forest_importances["importances"].plot.bar(
    yerr=top_k_forest_importances["std"], ax=ax)
ax.set_title("Feature importances")
ax.set_ylabel("Mean decrease in impurity")
fig.tight_layout()
```

1.6 Evaluate Algorithms: Mosquito myth

1.6.1 Prepare training and validation data

```
[29]: # Separate training and final validation data set. First remove class
      # label from data (X). Setup target class (Y)
      # Then make the validation set 10% of the entire
      # set of labeled data (X_validate, Y_validate)

      valueArray = msq_df_is_myth.values
      Y = valueArray[:,1]
      Y = Y.astype('float')
      test_size = 0.2
      seed = 3
      X_train, X_validate, Y_train, Y_validate = train_test_split(
          X_msq,
          Y,
          test_size=test_size,
          random_state=seed)

      print(f'Y_train Distribution: {Counter(Y_train).most_common()}')
```

```
Y_train Distribution: [(0.0, 557), (1.0, 441)]
```

1.6.2 Oversample to desirable ratio

```
[30]: sampling_ratio = 0.5 # ratio of minority to total cases
      undersample = False # whether to undersample or oversample

      X_balanced, Y_balanced = resample_data(
          X_msq, #X_train,
          Y, #Y_train,
          undersample=undersample,
          sampling_ratio=sampling_ratio)
```

```
Y_train: Counter({0.0: 685, 1.0: 563})
Y_resample: Counter({1.0: 685, 0.0: 685})
```

1.7 10-Fold Cross Validation: Mosquito myth

```
[31]: models = []
      models.append(('K-Nearest Neighbors (KNN)', KNeighborsClassifier()))
      models.append(('Random Forest (RF)', RandomForestClassifier(n_estimators=40,␣
       ↪random_state=seed)))
      models.append(('Decision Tree (DT)', DecisionTreeClassifier(random_state=seed)))
      models.append(('Multinomial Naive Bayes (MNB)', MultinomialNB()))
      models.append(('Logistic Regression (LR)',␣
       ↪LogisticRegression(random_state=seed)))
```

```python
models.append(('Support Vector Machine (SVM)', SVC(gamma='auto')))
models.append(('Multi-Layer Perceptron (MLP)', MLPClassifier(max_iter=100,
  ↪activation='relu')))

# Baseline: distribution of labeled data
print(f'Distribution of labeled disinfectants tweets: {Counter(Y_balanced).
  ↪most_common()}')
print()

# Evaluate algorithms using 10-fold cross validation
results, names = show_kfold_output(models=models,
                                   X=X_balanced,
                                   Y=Y_balanced,
                                   df=msq_df,
                                   text_col='text_cleaned',
                                   vectorizer=msq_vectorizer)
```

```
Computing predictions:   0%|            | 0/1248 [00:00<?, ?it/s]

Distribution of labeled disinfectants tweets: [(1.0, 685), (0.0, 685)]


K-Nearest Neighbors (KNN):


Computing predictions: 100%|     | 1248/1248 [00:02<00:00, 453.66it/s]

Distribution of predicted labels:
 yes    732
 no     516
Name: prediction, dtype: int64


Mean (std):       0.6672 (0.4712)
Accuracy:         {1.0, 4}


Confusion matrix:
 [[436 249]
 [ 20 665]]


Report:
              precision    recall  f1-score   support

         0.0       0.96      0.64      0.76       685
         1.0       0.73      0.97      0.83       685

    accuracy                           0.80      1370
   macro avg       0.84      0.80      0.80      1370
weighted avg       0.84      0.80      0.80      1370
```

```
Random Forest (RF):


Computing predictions: 100%|      | 1248/1248 [00:08<00:00, 153.51it/s]

Distribution of predicted labels:
 no     676
yes    572
Name: prediction, dtype: int64


Mean (std):      0.5241 (0.4994)
Accuracy:        {1.0, 4}


Confusion matrix:
 [[640  45]
 [ 12 673]]


Report:
              precision    recall  f1-score   support

         0.0       0.98      0.93      0.96       685
         1.0       0.94      0.98      0.96       685

    accuracy                           0.96      1370
   macro avg       0.96      0.96      0.96      1370
weighted avg       0.96      0.96      0.96      1370



Decision Tree (DT):


Computing predictions: 100%|      | 1248/1248 [00:01<00:00, 642.24it/s]
Computing predictions:   6%|        | 77/1248 [00:00<00:01, 766.29it/s]

Distribution of predicted labels:
 no     684
yes    564
Name: prediction, dtype: int64


Mean (std):      0.519 (0.4996)
Accuracy:        {1.0, 4}


Confusion matrix:
 [[641  44]
 [ 18 667]]


Report:
              precision    recall  f1-score   support

         0.0       0.97      0.94      0.95       685
```

```
            1.0          0.94        0.97        0.96          685

        accuracy                                 0.95         1370
       macro avg         0.96        0.95        0.95         1370
    weighted avg         0.96        0.95        0.95         1370
```

Multinomial Naive Bayes (MNB):

```
Computing predictions: 100%|      | 1248/1248 [00:01<00:00, 727.79it/s]
Computing predictions:   0%|         | 0/1248 [00:00<?, ?it/s]
```

Distribution of predicted labels:
```
 yes    639
no     609
Name: prediction, dtype: int64
```

```
Mean (std):       0.646 (0.4782)
Accuracy:         {1.0, 4}
```

Confusion matrix:
```
 [[480 205]
 [  5 680]]
```

Report:
```
              precision    recall  f1-score    support

         0.0       0.99       0.70       0.82         685
         1.0       0.77       0.99       0.87         685

    accuracy                             0.85        1370
   macro avg       0.88       0.85       0.84        1370
weighted avg       0.88       0.85       0.84        1370
```

Logistic Regression (LR):

```
Computing predictions: 100%|      | 1248/1248 [00:01<00:00, 756.28it/s]
```

Distribution of predicted labels:
```
 no     666
yes    582
Name: prediction, dtype: int64
```

```
Mean (std):       0.5073 (0.4999)
Accuracy:         {1.0, 4}
```

Confusion matrix:

```
[[644  41]
 [ 31 654]]
```

Report:

	precision	recall	f1-score	support
0.0	0.95	0.94	0.95	685
1.0	0.94	0.95	0.95	685
accuracy			0.95	1370
macro avg	0.95	0.95	0.95	1370
weighted avg	0.95	0.95	0.95	1370

Support Vector Machine (SVM):

```
Computing predictions:    0%|           | 0/1248 [00:00<?,
?it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
```

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 5%| | 67/1248 [00:00<00:01,
669.08it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

123

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

```
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
```

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 11%| | 139/1248 [00:00<00:01,
682.36it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 17%| | 208/1248 [00:00<00:01,
684.24it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 22%| | 275/1248 [00:00<00:01,
677.34it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 27%| | 337/1248 [00:00<00:01,
658.53it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
Computing predictions: 32%| | 403/1248 [00:00<00:01,

656.91it/s]/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 37%| | 465/1248 [00:00<00:01,
644.88it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 42%| | 530/1248 [00:00<00:01,
644.74it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 48%| | 593/1248 [00:00<00:01,
638.35it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

167

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 53%| | 656/1248 [00:01<00:00,
633.11it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 58%| | 718/1248 [00:01<00:00,
626.47it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 63%| | 781/1248 [00:01<00:00,
626.36it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
Computing predictions: 68%| | 846/1248 [00:01<00:00, 633.07it/s]/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 73%| | 909/1248 [00:01<00:00,
615.82it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

194

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 78%| | 974/1248 [00:01<00:00,
623.66it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this

warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 83%| | 1042/1248 [00:01<00:00,
637.50it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead

of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 89%| | 1106/1248 [00:01<00:00,
630.55it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead of 'float64' in a future version. Specify a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:

DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 94%| | 1176/1248 [00:01<00:00,
648.82it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

```
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
```

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.

/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 99%| | 1241/1248 [00:01<00:00,
638.21it/s]/home/app59/anaconda3/lib/python3.7/site-
packages/ipykernel_launcher.py:71: DeprecationWarning: The default dtype for
empty Series will be 'object' instead of 'float64' in a future version. Specify
a dtype explicitly to silence this warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
/home/app59/anaconda3/lib/python3.7/site-packages/ipykernel_launcher.py:71:
DeprecationWarning: The default dtype for empty Series will be 'object' instead
of 'float64' in a future version. Specify a dtype explicitly to silence this
warning.
Computing predictions: 100%| | 1248/1248 [00:02<00:00, 599.00it/s]

Mean (std):   0.4 (0.4899)
Accuracy: {0.0, 4}

Confusion matrix:
 [[389 296]
 [433 252]]

Report:
              precision   recall f1-score   support

```
       0.0        0.47        0.57        0.52         685
       1.0        0.46        0.37        0.41         685

   accuracy                               0.47        1370
  macro avg        0.47        0.47        0.46        1370
weighted avg       0.47        0.47        0.46        1370
```

Multi-Layer Perceptron (MLP):

```
/home/app59/anaconda3/lib/python3.7/site-
packages/sklearn/neural_network/_multilayer_perceptron.py:696:
ConvergenceWarning: Stochastic Optimizer: Maximum iterations (100) reached and
the optimization hasn't converged yet.
  ConvergenceWarning,
Computing predictions: 100%|    | 1248/1248 [00:01<00:00, 727.00it/s]

Distribution of predicted labels:
 no     683
yes    565
Name: prediction, dtype: int64

Mean (std):     0.4905 (0.4999)
Accuracy:       {1.0, 4}

Confusion matrix:
 [[644  41]
 [ 54 631]]

Report:
             precision   recall  f1-score   support

       0.0        0.92        0.94        0.93         685
       1.0        0.94        0.92        0.93         685

   accuracy                               0.93        1370
  macro avg        0.93        0.93        0.93        1370
weighted avg       0.93        0.93        0.93        1370
```

[32]:
```python
# Save best model - Mosquitoes

#Model file output format
best_model_suffix = "LR" # this model has best accuracy
```

```python
thisday = date.today().strftime("%m%d%y")

MYTH_NAME_mod_fp = f'../models/
 ↪tweet_classifier_mosquitoes_{str(best_model_suffix)}_{str(thisday)}.joblib'

best_model = LogisticRegression(random_state=seed).fit(X_balanced, Y_balanced)

joblib.dump(best_model, MYTH_NAME_mod_fp)
```

[32]: ['../models/tweet_classifier_mosquitoes_LR_042622.joblib']

1.7.1 Inspect featured keywords (Random Forest)

```python
# Get feature names
# feature_names = [f"feature {i}" for i in range(X_balanced.shape[1])]
feature_names = msq_vectorizer.get_feature_names_out()
rf_model = RandomForestClassifier(n_estimators=40, random_state=seed).
 ↪fit(X_balanced, Y_balanced)

# Get feature importances from the randome forest model
importances = rf_model.feature_importances_
std = np.std(
    [tree.feature_importances_ for tree in rf_model.estimators_], axis=0)

print(type(feature_names))
print(type(X_balanced))

print(X_balanced.shape)
print(feature_names.shape)

# Build dataframe
forest_importances = pd.DataFrame()
forest_importances["importances"] = importances
forest_importances["std"] = std
forest_importances.index = feature_names
forest_importances = forest_importances.sort_values(
    by=["importances", "std"], ascending=False)

# See top k important features
top_k = 10
top_k_forest_importances = forest_importances.head(top_k)
print(list(top_k_forest_importances.index))
```

```
<class 'numpy.ndarray'>
<class 'scipy.sparse.csr.csr_matrix'>
(1370, 4624)
(4624,)
```

```
['mosquito', 'transmitted', 'coronavirus', 'covid19', 'bite', 'removed',
 'transmit', 'carry', 'emurl01', 'em']
```

[34]:
```
fig, ax = plt.subplots()
top_k_forest_importances["importances"].plot.bar(
    yerr=top_k_forest_importances["std"], ax=ax)
ax.set_title("Feature importances")
ax.set_ylabel("Mean decrease in impurity")
fig.tight_layout()
```