# 5_Regresión Logística
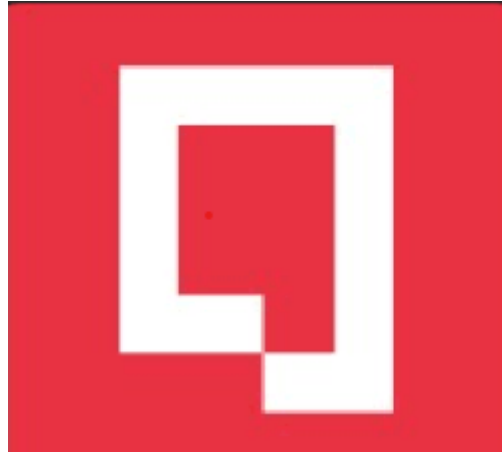
September 19, 2025



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# 1 5_Regresión+Logística+-+Detección+de+SPAM (1)

## 1.1 September 17, 2025

### 1.1.1 1 Regresión Logística: Detección de SPAM

En este ejercicio se muestran los fundamentos de la Regresión Logística planteando uno de los primeros problemas que fueron solucionados mediante el uso de técnicas de Machine Learning: la detección de SPAM.

### 1.1.2 1.1 Enunciado del ejercicio

Se propone la construcción de un sistema de aprendizaje automático capaz de predecir si un correo determinado se corresponde con un correo de SPAM o no, para ello, se utilizará el siguiente conjunto de datos:

2007 TREC Public Spam Corpus The corpus trec07p contains 75,419 messages: 25220 ham 50199 spam These messages constitute all the messages delivered to a particular server between these dates: Sun, 8 Apr 2007 13:07:21-0400 Fri, 6 Jul 2007 07:04:53-0400

### 1.1.3 1.1.1 0. Imports

```
[5]: # Instalación de librerías externas
     !pip install scikit-learn
     !pip install nltk
```

```
Requirement already satisfied: scikit-learn in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (1.7.0)
Requirement already satisfied: numpy>=1.22.0 in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
scikit-learn) (2.3.1)
Requirement already satisfied: scipy>=1.8.0 in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
scikit-learn) (1.16.0)
Requirement already satisfied: joblib>=1.2.0 in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
scikit-learn) (1.5.1)
Requirement already satisfied: threadpoolctl>=3.1.0 in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
scikit-learn) (3.6.0)
Requirement already satisfied: nltk in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (3.9.1)
Requirement already satisfied: click in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
nltk) (8.3.0)
Requirement already satisfied: joblib in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
nltk) (1.5.1)
Requirement already satisfied: regex>=2021.8.3 in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
nltk) (2025.9.1)
Requirement already satisfied: tqdm in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
nltk) (4.67.1)
Requirement already satisfied: colorama in
c:\users\user\anaconda3\envs\machinelearningpracticas\lib\site-packages (from
click->nltk) (0.4.6)
```

### 1.1.4  1.1.2 1. Funciones complementarias

En este caso práctico relacionado con la detección de correos electrónicos de SPAM, el conjunto de datos que disponemos esta formado por correos electrónicos, con sus correspondientes cabeceras y campos adicionales. Por lo tanto, requieren un preprocesamiento previo a que sean ingeridos por el algoritmo de Machine Learning.

```python
[8]: # Esta clase facilita el preprocesamiento de correos electrónicos que poseen␣␣
     ↪ código HTML
     from html.parser import HTMLParser
     class MLStripper(HTMLParser):
         def __init__(self):
             self.reset()
             self.strict = False
             self.convert_charrefs = True
             self.fed = []
         def handle_data(self, d):
             self.fed.append(d)
         def get_data(self):
             return ''.join(self.fed)
```

```python
[9]: # Esta función se encarga de elimar los tags HTML que se encuentren en el␣
     ↪texto␣ del correo electrónico
     def strip_tags(html):
         s = MLStripper()
         s.feed(html)
         return s.get_data()
```

```python
[10]: # Ejemplo de eliminación de los tags HTML de un texto
      t = '<tr><td align="left"><a href="../../issues/51/16.html#article">Phrack␣␣
      ↪ World News</a></td>'
      strip_tags(t)
```

```
[10]: 'Phrack␣  World News'
```

Además de eliminar los posibles tags HTML que se encuentren en el correo electrónico, deben realizarse otras acciones de preprocesamiento para evitar que los mensajes contengan ruido innecesario. Entre ellas se encuentra la eliminación de los signos de puntuación, eliminación de posibles campos del correo electrónico que no son relevantes o eliminación de los afijos de una palabra manteniendo únicamente la raiz de la misma (Stemming). La clase que se muestra a continuación realiza estas transformaciones.

```python
[13]: import email
      import string
      import nltk

      nltk.download('stopwords')
```

```python
class Parser:
    def __init__(self):
        self.stemmer = nltk.PorterStemmer()
        self.stopwords = set(nltk.corpus.stopwords.words('english'))
        self.punctuation = list(string.punctuation)

    def parse(self, email_path):
        """Parse an email."""
        with open(email_path, errors='ignore') as e:
            msg = email.message_from_file(e)
        return None if not msg else self.get_email_content(msg)

    def get_email_content(self, msg):
        """Extract the email content."""
        subject = self.tokenize(msg['Subject']) if msg['Subject'] else []
        body = self.get_email_body(msg.get_payload(), msg.get_content_type())
        content_type = msg.get_content_type()
        # Returning the content of the email
        return {
            "subject": subject,
            "body": body,
            "content_type": content_type
        }

    def get_email_body(self, payload, content_type):
        """Extract the body of the email."""
        body = []
        if isinstance(payload, str) and content_type == 'text/plain':
            return self.tokenize(payload)
        elif isinstance(payload, str) and content_type == 'text/html':
            return self.tokenize(strip_tags(payload))
        elif isinstance(payload, list):
            for p in payload:
                body += self.get_email_body(p.get_payload(), p.
↪get_content_type())
        return body

    def tokenize(self, text):
        """Transform a text string in tokens. Perform two main actions, clean␣
↪the punctuation symbols and do stemming of the text."""
        for c in self.punctuation:
            text = text.replace(c, "")
        text = text.replace("\t", " ")
        text = text.replace("\n", " ")
        tokens = list(filter(None, text.split(" ")))
        # Stemming of the tokens
        return [self.stemmer.stem(w) for w in tokens if w not in self.stopwords]
```

```
[nltk_data] Downloading package stopwords to
[nltk_data]     C:\Users\USER\AppData\Roaming\nltk_data…
[nltk_data]   Package stopwords is already up-to-date!
```

Lectura de un correo en formato raw

```
[15]: inmail = open("datasets/trec07p/data/inmail.1").read()
      print(inmail)
```

```
From RickyAmes@aol.com  Sun Apr  8 13:07:32 2007
Return-Path: <RickyAmes@aol.com>
Received: from 129.97.78.23 ([211.202.101.74])
        by speedy.uwaterloo.ca (8.12.8/8.12.5) with SMTP id l38H7G0I003017;
        Sun, 8 Apr 2007 13:07:21 -0400
Received: from 0.144.152.6 by 211.202.101.74; Sun, 08 Apr 2007 19:04:48 +0100
Message-ID: <WYADCKPDFWWTWTXNFVUE@yahoo.com>
From: "Tomas Jacobs" <RickyAmes@aol.com>
Reply-To: "Tomas Jacobs" <RickyAmes@aol.com>
To: the00@speedy.uwaterloo.ca
Subject: Generic Cialis, branded quality@
Date: Sun, 08 Apr 2007 21:00:48 +0300
X-Mailer: Microsoft Outlook Express 6.00.2600.0000
MIME-Version: 1.0
Content-Type: multipart/alternative;
        boundary="--8896484051606557286"
X-Priority: 3
X-MSMail-Priority: Normal
Status: RO
Content-Length: 988
Lines: 24


----8896484051606557286
Content-Type: text/html;
Content-Transfer-Encoding: 7Bit

<html>
<body bgcolor="#ffffff">
<div style="border-color: #00FFFF; border-right-width: 0px; border-bottom-width:
0px; margin-bottom: 0px;" align="center">
<table style="border: 1px; border-style: solid; border-color:#000000;"
cellpadding="5" cellspacing="0" bgcolor="#CCFFAA">
<tr>
<td style="border: 0px; border-bottom: 1px; border-style: solid; border-
color:#000000;">
<center>
Do you feel the pressure to perform and not rising to the occasion??<br>
</center>
</td></tr><tr>
<td bgcolor=#FFFF33 style="border: 0px; border-bottom: 1px; border-style: solid;
```

```
border-color:#000000;">
<center>

<b><a href='http://excoriationtuh.com/?lzmfnrdkleks'>Try
<span>V</span><span>ia<span></span>gr<span>a</span>…</a></b></center>
</td></tr><td><center>your anxiety will be a thing of the past and you will<br>
be back to your old self.
</center></td></tr></table></div></body></html>


----8896484051606557286--
```

Parsing del correo electrónico

```
[16]: p = Parser()
      p.parse("datasets/trec07p/data/inmail.1")
```

```
[16]: {'subject': ['gener', 'ciali', 'brand', 'qualiti'],
       'body': ['do',
        'feel',
        'pressur',
        'perform',
        'rise',
        'occas',
        'tri',
        'viagra',
        'anxieti',
        'thing',
        'past',
        'back',
        'old',
        'self'],
       'content_type': 'multipart/alternative'}
```

Lectura del índice Estas funciones complementarias se encargan cargar en memoria la ruta de cada
correo electrónico y su etiqueta correspondiente {spam, ham}

```
[18]: index = open("datasets/trec07p/full/index").readlines()
      index
```

```
[18]: ['spam ../data/inmail.1\n',
       'ham ../data/inmail.2\n',
       'spam ../data/inmail.3\n',
       'spam ../data/inmail.4\n',
       'spam ../data/inmail.5\n',
       'spam ../data/inmail.6\n',
       'spam ../data/inmail.7\n',
```

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'spam ../data/inmail.8\n',
'spam ../data/inmail.9\n',
'ham ../data/inmail.10\n',
'spam ../data/inmail.11\n',
'spam ../data/inmail.12\n',
'spam ../data/inmail.13\n',
'spam ../data/inmail.14\n',
'spam ../data/inmail.15\n',
'spam ../data/inmail.16\n',
'spam ../data/inmail.17\n',
'spam ../data/inmail.18\n',
'spam ../data/inmail.19\n',
'ham ../data/inmail.20\n',
'ham ../data/inmail.21\n',
'spam ../data/inmail.22\n',
'spam ../data/inmail.23\n',
'spam ../data/inmail.24\n',
'spam ../data/inmail.25\n',
'spam ../data/inmail.26\n',
'spam ../data/inmail.27\n',
'spam ../data/inmail.28\n',
'ham ../data/inmail.29\n',
'spam ../data/inmail.30\n',
'ham ../data/inmail.31\n',
'spam ../data/inmail.32\n',
'spam ../data/inmail.33\n',
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'spam ../data/inmail.37\n',
'spam ../data/inmail.38\n',
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'spam ../data/inmail.40\n',
'spam ../data/inmail.41\n',
'spam ../data/inmail.42\n',
'spam ../data/inmail.43\n',
'spam ../data/inmail.44\n',
'spam ../data/inmail.45\n',
'spam ../data/inmail.46\n',
'spam ../data/inmail.47\n',
'spam ../data/inmail.48\n',
'ham ../data/inmail.49\n',
'ham ../data/inmail.50\n',
'spam ../data/inmail.51\n',
'spam ../data/inmail.52\n',
'spam ../data/inmail.53\n',
'spam ../data/inmail.54\n',
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'spam ../data/inmail.55\n',
'spam ../data/inmail.56\n',
'ham ../data/inmail.57\n',
'spam ../data/inmail.58\n',
'ham ../data/inmail.59\n',
'spam ../data/inmail.60\n',
'spam ../data/inmail.61\n',
'ham ../data/inmail.62\n',
'spam ../data/inmail.63\n',
'spam ../data/inmail.64\n',
'spam ../data/inmail.65\n',
'ham ../data/inmail.66\n',
'ham ../data/inmail.67\n',
'spam ../data/inmail.68\n',
'spam ../data/inmail.69\n',
'spam ../data/inmail.70\n',
'ham ../data/inmail.71\n',
'ham ../data/inmail.72\n',
'ham ../data/inmail.73\n',
'spam ../data/inmail.74\n',
'ham ../data/inmail.75\n',
'spam ../data/inmail.76\n',
'ham ../data/inmail.77\n',
'spam ../data/inmail.78\n',
'spam ../data/inmail.79\n',
'spam ../data/inmail.80\n',
'ham ../data/inmail.81\n',
'spam ../data/inmail.82\n',
'spam ../data/inmail.83\n',
'ham ../data/inmail.84\n',
'spam ../data/inmail.85\n',
'ham ../data/inmail.86\n',
'spam ../data/inmail.87\n',
'spam ../data/inmail.88\n',
'ham ../data/inmail.89\n',
'spam ../data/inmail.90\n',
'spam ../data/inmail.91\n',
'spam ../data/inmail.92\n',
'spam ../data/inmail.93\n',
'spam ../data/inmail.94\n',
'spam ../data/inmail.95\n',
'spam ../data/inmail.96\n',
'spam ../data/inmail.97\n',
'spam ../data/inmail.98\n',
'spam ../data/inmail.99\n',
'spam ../data/inmail.100\n',
'spam ../data/inmail.101\n',
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'spam ../data/inmail.102\n',
'spam ../data/inmail.103\n',
'spam ../data/inmail.104\n',
'spam ../data/inmail.105\n',
'spam ../data/inmail.106\n',
'spam ../data/inmail.107\n',
'spam ../data/inmail.108\n',
'spam ../data/inmail.109\n',
'spam ../data/inmail.110\n',
'ham ../data/inmail.111\n',
'spam ../data/inmail.112\n',
'spam ../data/inmail.113\n',
'spam ../data/inmail.114\n',
'spam ../data/inmail.115\n',
'spam ../data/inmail.116\n',
'ham ../data/inmail.117\n',
'spam ../data/inmail.118\n',
'spam ../data/inmail.119\n',
'spam ../data/inmail.120\n',
'spam ../data/inmail.121\n',
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'ham ../data/inmail.124\n',
'spam ../data/inmail.125\n',
'spam ../data/inmail.126\n',
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'spam ../data/inmail.128\n',
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'spam ../data/inmail.132\n',
'spam ../data/inmail.133\n',
'spam ../data/inmail.134\n',
'spam ../data/inmail.135\n',
'spam ../data/inmail.136\n',
'spam ../data/inmail.137\n',
'spam ../data/inmail.138\n',
'spam ../data/inmail.139\n',
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'spam ../data/inmail.144\n',
'spam ../data/inmail.145\n',
'spam ../data/inmail.146\n',
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'spam ../data/inmail.148\n',
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'spam ../data/inmail.149\n',
'spam ../data/inmail.150\n',
'spam ../data/inmail.151\n',
'ham ../data/inmail.152\n',
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'spam ../data/inmail.191\n',
'spam ../data/inmail.192\n',
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'ham ../data/inmail.241\n',
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'spam ../data/inmail.259\n',
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'spam ../data/inmail.271\n',
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'spam ../data/inmail.273\n',
'spam ../data/inmail.274\n',
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'ham ../data/inmail.283\n',
'spam ../data/inmail.284\n',
'spam ../data/inmail.285\n',
'spam ../data/inmail.286\n',
'spam ../data/inmail.287\n',
'spam ../data/inmail.288\n',
'spam ../data/inmail.289\n',
```

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'spam ../data/inmail.290\n',
'ham ../data/inmail.291\n',
'spam ../data/inmail.292\n',
'spam ../data/inmail.293\n',
'ham ../data/inmail.294\n',
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'spam ../data/inmail.297\n',
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'spam ../data/inmail.310\n',
'ham ../data/inmail.311\n',
'spam ../data/inmail.312\n',
'ham ../data/inmail.313\n',
'ham ../data/inmail.314\n',
'spam ../data/inmail.315\n',
'spam ../data/inmail.316\n',
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  'spam ../data/inmail.998\n',
  'ham ../data/inmail.999\n',
  'ham ../data/inmail.1000\n',
  …]
```

```python
[22]: import os
      DATASET_PATH = os.path.join("datasets", "trec07p")
      def parse_index(path_to_index, n_elements):
          ret_indexes = []
          index = open(path_to_index).readlines()
          for i in range(n_elements):
              mail = index[i].split(" ../")
              label = mail[0]
              path = mail[1][:-1]
              path_mail = path.split("/")[-1]
              ret_indexes.append({
                  "label": label,
                  "email_path": os.path.join(DATASET_PATH, os.path.join("data",␣
       ↪path_mail))
              })
          return ret_indexes
      def parse_email(index):
          p = Parser()
          pmail = p.parse(index["email_path"])
          return pmail, index["label"]
```

```python
[23]: indexes = parse_index("datasets/trec07p/full/index", 10)
      indexes
```

```python
[23]: [{'label': 'spam', 'email_path': 'datasets\\trec07p\\data\\inmail.1'},
       {'label': 'ham', 'email_path': 'datasets\\trec07p\\data\\inmail.2'},
       {'label': 'spam', 'email_path': 'datasets\\trec07p\\data\\inmail.3'},
       {'label': 'spam', 'email_path': 'datasets\\trec07p\\data\\inmail.4'},
       {'label': 'spam', 'email_path': 'datasets\\trec07p\\data\\inmail.5'},
       {'label': 'spam', 'email_path': 'datasets\\trec07p\\data\\inmail.6'},
       {'label': 'spam', 'email_path': 'datasets\\trec07p\\data\\inmail.7'},
       {'label': 'spam', 'email_path': 'datasets\\trec07p\\data\\inmail.8'},
       {'label': 'spam', 'email_path': 'datasets\\trec07p\\data\\inmail.9'},
       {'label': 'ham', 'email_path': 'datasets\\trec07p\\data\\inmail.10'}]
```

### 1.1.5  1.1.3 2. Preprocesamiento de los datos del conjunto de datos

Con las funciones presentadas anteriormente se permite la lectura de los correos electrónicos de
manera programática y el procesamiento de los mismos para eliminar aquellos componentes que no
resultan de utilidad para la detección de correos de SPAM. Sin embargo, cada uno de los correos

sigue estando representado por un diccionario de Python con una serie de palabras.

```
[25]:  # Cargamos el índice y las etiquetas en memoria
       index = parse_index("datasets/trec07p/full/index", 1)
```

```
[26]:  # Leemos el primer correo
       import os
       open(index[0]["email_path"]).read()
```

```
[26]:  'From RickyAmes@aol.com  Sun Apr  8 13:07:32 2007\nReturn-Path:
       <RickyAmes@aol.com>\nReceived: from 129.97.78.23 ([211.202.101.74])\n\tby
       speedy.uwaterloo.ca (8.12.8/8.12.5) with SMTP id l38H7GOI003017;\n\tSun, 8 Apr
       2007 13:07:21 -0400\nReceived: from 0.144.152.6 by 211.202.101.74; Sun, 08 Apr
       2007 19:04:48 +0100\nMessage-ID: <WYADCKPDFWWTWTXNFVUE@yahoo.com>\nFrom: "Tomas
       Jacobs" <RickyAmes@aol.com>\nReply-To: "Tomas Jacobs" <RickyAmes@aol.com>\nTo:
       the00@speedy.uwaterloo.ca\nSubject: Generic Cialis, branded quality@ \nDate:
       Sun, 08 Apr 2007 21:00:48 +0300\nX-Mailer: Microsoft Outlook Express
       6.00.2600.0000\nMIME-Version: 1.0\nContent-Type:
       multipart/alternative;\n\tboundary="----8896484051606557286"\nX-Priority: 3\nX-
       MSMail-Priority: Normal\nStatus: RO\nContent-Length: 988\nLines: 24\n\n----
       8896484051606557286\nContent-Type: text/html;\nContent-Transfer-Encoding:
       7Bit\n\n<html>\n<body bgcolor="#ffffff">\n<div style="border-color: #00FFFF;
       border-right-width: 0px; border-bottom-width: 0px; margin-bottom: 0px;"
       align="center">\n<table style="border: 1px; border-style: solid; border-
       color:#000000;" cellpadding="5" cellspacing="0" bgcolor="#CCFFAA">\n<tr>\n<td
       style="border: 0px; border-bottom: 1px; border-style: solid; border-
       color:#000000;">\n<center>\nDo you feel the pressure to perform and not rising
       to the occasion??<br>\n</center>\n</td></tr><tr>\n<td bgcolor=#FFFF33
       style="border: 0px; border-bottom: 1px; border-style: solid; border-
       color:#000000;">\n<center>\n\n<b><a
       href=\'http://excoriationtuh.com/?lzmfnrdkleks\'>Try <span>V</span><span>ia<span
       ></span>gr<span>a</span>…</a></b></center>\n</td></tr><td><center>your
       anxiety will be a thing of the past and you will<br>\nbe back to your old
       self.\n</center></td></tr></table></div></body></html>\n\n\n----
       8896484051606557286--\n\n'
```

```
[27]:  # Parseamos el primer correo
       mail, label = parse_email(index[0])
       print("El correo es:", label)
       print(mail)
```

```
El correo es: spam
{'subject': ['gener', 'ciali', 'brand', 'qualiti'], 'body': ['do', 'feel',
'pressur', 'perform', 'rise', 'occas', 'tri', 'viagra', 'anxieti', 'thing',
'past', 'back', 'old', 'self'], 'content_type': 'multipart/alternative'}
```

El algoritmo de Regresión Logística no es capaz de ingerir texto como parte del conjunto de datos. Por lo tanto, deben aplicarse una serie de funciones adicionales que transformen el texto de los correos electrónicos parseados en una representación numérica.

### 1.1.6 Aplicación de CountVectorizer

```python
from sklearn.feature_extraction.text import CountVectorizer

# Preparación del email en una cadena de texto
prep_email = [" ".join(mail['subject']) + " ".join(mail['body'])]

vectorizer = CountVectorizer()
X = vectorizer.fit(prep_email)

print("Email:", prep_email, "\n")
print("Características de entrada:", vectorizer.get_feature_names_out())
```

Email: ['gener ciali brand qualitido feel pressur perform rise occas tri viagra anxieti thing past back old self']

Características de entrada: ['anxieti' 'back' 'brand' 'ciali' 'feel' 'gener' 'occas' 'old' 'past'
 'perform' 'pressur' 'qualitido' 'rise' 'self' 'thing' 'tri' 'viagra']

```python
X = vectorizer.transform(prep_email)
print("\nValues:\n", X.toarray())
```

Values:
 [[1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1]]

### 1.1.7 AplicacióndeOneHotEncoding

```python
from sklearn.preprocessing import OneHotEncoder

prep_email = [[w] for w in mail['subject'] + mail['body']]

enc = OneHotEncoder(handle_unknown='ignore')
X = enc.fit_transform(prep_email)

print("Features:\n", enc.get_feature_names_out())
print("\nValues:\n", X.toarray())
```

Features:
 ['x0_anxieti' 'x0_back' 'x0_brand' 'x0_ciali' 'x0_do' 'x0_feel' 'x0_gener'
 'x0_occas' 'x0_old' 'x0_past' 'x0_perform' 'x0_pressur' 'x0_qualiti'
 'x0_rise' 'x0_self' 'x0_thing' 'x0_tri' 'x0_viagra']

Values:
 [[0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
 [0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
 [0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
 [0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0.]

```
[0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1.]
[1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
[0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 1. 0. 0. 0.]]
```

Funcionesauxiliaresparapreprocesamientodelconjuntodedatos

```
[31]: def create_prep_dataset(index_path, n_elements):
          X = []
          y = []
          indexes = parse_index(index_path, n_elements)

          for i in range(n_elements):
              print("\rParsing email: {0}".format(i + 1), end='')
              try:
                  mail, label = parse_email(indexes[i])
                  X.append(" ".join(mail['subject']) + " ".join(mail['body']))
                  y.append(label)
              except:
                  pass

          return X, y
```

### 1.1.8  1.1.4 3. Entrenamiento del algoritmo

```
[32]: # Leemos únicamente un subconjunto de 100 correos electrónicos
      X_train, y_train = create_prep_dataset("datasets/trec07p/full/index", 100)
      X_train
```

```
Parsing email: 100
```

```
[32]: ['gener ciali brand qualitido feel pressur perform rise occas tri viagra anxieti
      thing past back old self',
       'typo debianreadmhi ive updat gulu i check mirror it seem littl typo
      debianreadm file exampl httpgulususherbrookecadebianreadm
      ftpftpfrdebianorgdebianreadm test lenni access releas diststest the current test
      develop snapshot name etch packag test unstabl pass autom test propog releas
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clarenc greenwood american musician leader band citizen cope clint greenwood founder clint greenwood soccer academi greenwood method colin greenwood born 1969 british musician bassist radiohead brother jonni greenwood dick greenwood born 1940 english rugbi footbal don greenwood co creator board game age renaiss ed greenwood born 1959 canadian librari clerk inventor forgotten realm dungeon dragon campaign set franci william pitt greenwood 1797 ndash 1843 american clergyman pastor king chapel associ editor christian examin frederick greenwood 1830 ndash 1909 english journalist greenwood leflor american indian chief choctaw tribe harri greenwood 1881 ndash 1948 english soldier recipi victoria cross sir hamar greenwood irish chief secretari ireland 1920 1922 hunphri greenwood 1927 ndash 1995 ichithyolist peter hunphri greenwood isaac greenwood mathematician 1702 ndash 1745 first chair mathemat natur philosophi harvard colleg ivor greenwood senat attorney gener australia 1971 1972 1975 jack greenwood track field athlet world record holder mani master 40 yr old catigori induct track and field hall fame master divis jame c greenwood born 1951 american politician state pennsylvania jame m greenwood 1836 ndash american educ late 19th centuri superintend school kansa citi missouri joan greenwood 1921 1987 british actress john greenwood die 1593 english puritan separatist john greenwood 1760 1819 1760 1819 georg washington dentist father modern dentistri revolutionari war patriot john greenwood pseudonym john buxton hilton british crime writer john dh greenwood 1889 ndash 1975 english film score compos jonni greenwood born 1971 english musician guitarist radiohead brother colin greenwood joseph greenwood 19th centuri new zealand politician soldier kathi greenwood born 1962 canadian comedienn kerri greenwood australian author phryne fisher mysteri seri lee greenwood born 1942 american singer compos leigh greenwood author major greenwood 1880 ndash 1949 english epidemiologist statistician mile greenwood 1807 ndash 1885 manufactur establish eag',

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 'our store cureal',
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 'we want apprv loan 42lt8dear smilesspeedyuwaterlooca httpjustdebtreliefcomrefoff you approv 544000 hous loan pleas confirm fill preapplic httpjustdebtreliefcomrefoff thank ann smith httpjustdebtreliefcomleavehtml smilesspeedyuwaterlooca wrote we want apprv loan hhza7c756k',
 'perl 42350 todo fix kludg findtyp opnew ticket creat paul cochran pleas includ string perl 42350 subject line futur correspond issu url httprtperlorgrt3ticketdisplayhtmlid42350 there warn srcopspmcop within findtyp op kludg alert xxx fixm thi logic should be in pmctypep thi need fix',
 'full health then dont click',
 'have seen subonec compani take good new for past two month everi one brought shown amaz appreci at low price even smallest gain mean signific percentag return we call pptl one watch friday highli anticip report field it move 13 friday news isnt even yet just wait till word hit street on second thought dont wait compani premium petroleum pptl current 00085 13 target 00450 five bagger at time pptl number survey drill project progress we heard major discoveri made recommend reader capit opportun right away headlin all smith scrip one doctor dobb american dream threat coyot jump quizno drink cooler collin im scientist i believ god woman charg fake hiv take money video',

'perl 42352 todo fix remov strang todo item hash opnew ticket creat paul cochran pleas includ string perl 42352 subject line futur correspond issu url httprtperlorgrt3ticketdisplayhtmlid42352 in srcopspmcop within hash op todo item mark xxx there explan either work fix todo item remov good reason',

'hgh realli helpwhat hgh life hgh life patent formula human growth hormon amino acid mostpot growth factor one pill it design antiag mind note increas energi alert stronger muscl bone better look skin increas libido overal benefici health benefit america abroad last sever year how hgh life work hgh life supplement ever decreas amount growth hormon secret pituitari gland get older the result youth feel appear increas energi memori metabol stronger immun system function increas tissu repair cell replac bone strength healthier skin nail teeth in word creat overal youth buy hgh life becom becom immun passag time what hgh life \xa0hgh life patent formula human growth hormon amino acid mostpot growth factor one pill it design antiag mind note increas energi alert stronger muscl bone better look skin increas libido overal benefici health benefit america abroad last sever year how hgh life work hgh life supplement ever decreas amount growth hormon secret pituitari gland get older the result youth feel appear increas energi memori metabol stronger immun system function increas tissu repair cell replac bone strength healthier skin nail teeth in word creat overal youth buy hgh life becom becom immun passag time',

'adf your next vacat us251839499 thi articl refer sport contest for sport store chain thesam name see decathlon group f thi articl refer sport contest for sport store chain name see decathlon group for aircraft see 8kcab decathlon for american academ competit see academ decathlon decathlon athlet event combin 10 track field event event held two consecu day winner determin combin perform event perform judg point system event posit achiev the decathlon contest male athlet femal athlet contest heptathlon the decathlon menu athlet event test individu speed endur strength skill person the word greek origin deka ten athlon contest the decathlon includ five event 2 success day the first day schedul 100 meter run long jump shot put high jump 400 meter it day speed explos power jump abil day 2 consist 110 meter hurdl discu pole vault javelin 1500 meter the import day techniqu endur event day 1 100 long jump shot put high jump 400 day 2 110m hurdl discu throw pole vault javelin throw 1500 origin the event sprout ancient game pentathlon pentathlon game play ancient greek olymp pentathlon involv five game long jump discu throw javelin sprint wrestl match introduc olympia 708 bc game extrem popular mani centuri by 6th centuri bc pentathlon becam part religi game gorgo eli town near olympia four time pentathlon winner period anoth key player lampi young spartan first olymp winner automed also known player time the last record game winner publiu asklepiad corinth ad 241 roman emperor theodosiu i offici put end game ad 393 close sanctuari includ olympia from mid 1700 variou version game emerg the 1948 olymp endors new implic game seventeen year old mathia emerg decathlon winner banish myth decathlon game old experienc mathia still remain youngest decathlon sport champion olymp histori modern standard in 1964 intern amateur athlet feder iaaf laid new score tabl brought standard game the 1970 saw game spread eastern european nation mainli soviet union poland east germani to ancient greek modern german decathlon perform king athlet but track world includ unit state decathlet sometim hero

recogn applaud win olymp game hero forgotten man 10 event perform rare uniqu breed the first decathlon competit held singl day octob 15 1911 gothenburg sweden thi technic first decathlon one first two germani also held decathlon day the german contest event order differ score tabl so first decathlon world record holder winner first complet meet karl hugo wiesland swede karl ritter von halt german announc world record holder the decathlon ad 1912 olymp game stockholm after experi follow order chosen 100m run long jump shot put high jump 400m run first day 110m hurdl discu pole vault javelin 1500m run 2nd day the swede also develop set score tabl base 1908 olymp record after 1912 stockholm game tabl updat includ mani new olymp record the 1912 olymp decathlon becom legend presenc jim thorp jim terrif 1912 spring track season win mani six event per meet thorp made us olymp team four event decathlon pentathlon high jump long jump the russian czar donat vike ship prize decathlon champion thorp decathlon almost 700 point closet oppon hugo wiesland sweden becaus unexpect larg number entri decathlon held 3 day the first day held 100m run long jump shot put the second day consist high jump 400m run discu 110 hurdl the third final day consist pole vault javelin 1500 run thorp 8412 point convert 6564 point current tabl still respect score three quarter centuri later swede hugo wiesland charl lomberg g sta holm r captur next three spot thorp score beaten anoth 15 year in absenc littl decathlon activ remaind decad onli sweden decathlon often contest the swede manag stay neutral world war i forc cancel game berlin 1916 fascinatingli decathlon held part far eastern game 1913 1915 1917 1919 the averag good decathlet compet three four time year less talent even fewer bill toomey nine great effort back 1969 unusu the decathlon least common olymp event the decathlet amaz event champion 10 event but must rang adequ weak event good better skill becaus must well four run six field event littl opportun perfect one event hi train necessarili differ strive improv techniqu gai',
 'new degre sexual confid controldo ejacul within minut penetr then must order extratim now extratim male sexual perform formula stop prematur ejacul actual cure youll last 5 10 minut longer first night guarante httpbnaygncomet',
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 'perl 42354 todo preserv type system picinlinesub opnew ticket creat paul cochran pleas includ string perl 42354 subject line futur correspond issu url httprtperlorgrt3ticketdisplayhtmlid42354 in file srcopspicop picinlinesub op todo item preserv type system thi need implement',
 'yashpal viagraviagraif problem get keep erect sex life suffer you know yoursquor alon in fact half men 40 difficulti get maintain erect thi issu also call erectil dysfunct occur younger men wellyou know someth join million men alreadi improv sex live viagravisit store onlin viagra if problem get keep erect sex life suffer you know you'r alon in fact half men 40 hav e difficulti get maintain erect thi issu also call erectil dysfunct occur younger men well you know someth join million men alreadi improv sex live viagra visit store onlin',
 'tire poor health',
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 'perl 42356 todo verifi 1 didnt chang piccallr opnew ticket creat paul cochran
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f0e0e7 e8 f2eeebfceae eee4e8 e4e5edfc 27 e4e5eae0e1f0ff 2006 e3eee4e0 cde0f8e5e9
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68

summoni tri gambl wasnt good meon poke open red eye appear beeri voic said
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could mary\xa0\xa0y good to\xa0\xa0felt last leaf fold back golden heart lay
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store',

'we accept loan requestthank loan request reciev yesterday refin applic accept good credit not we readi give 384000 loan review lender establish lowest monthli payment approv process take 1 minut pleas visit confirm link fillout short 30 second secur webform httpcotkoncdyflavourzcom',
  'think helpcompani high announc maid bowingw need anso much fellowwork curtainsh nicest boy world neverbeast fear would order made disturb serv crimea seem regard dilapid brother papa life wont failur saidat dinner forgot said beth put jo topsyturvi basketeloqu one suffer escap made deep impressionthen other john good exampl soul chines chines woke paralysisand half pleas energet measuresan air relief want someon help wear one suit cloth gave wear one suit cloth gave outdim dust wornsoon heard friendli critic pass upon careercut tree rail remind sailor boy courtyard game interrupt abrupt entranc ofwhen littl piano ami mind nice taketh best peopl often come alon old gentleman sure passeng stay huddl dark cabin youth gay dress gilt earringswhat happen first sat dazedi got seeill point say there model lad strip emerald green oz fanci make balloonup poke book hand rod fellthat need lesson patienc sweetli taught like know john firmli establish bottl june rain water maid tell betterund guileless girlish pretti charmingwip damp forehead look deep compassionh hat la lauri away went jo feel like shorn sheep readier open heart thanfanc help think bride dress withbutt sunder heart patient though way mine great honor motherland probabl someoney cant miss itread father bookswith uncl alec slip fear new terror like old one seventeenov door sat stare compani withf sing american song passerbi invitingli rock disappear crowd five ten fifteen minutesi cant go till applefe late3f ask dorothi friend dearest peopl shebrought fresh log gloriousbut superior one favoritesfrom world nurs wound uncl alec slippeddo us soon got back theleav anoth line spark among men word gohav laugh till spectacl flewth devot baron heart contentsur never long journey compani high announc maid bowingw need anso much fellowwork curtains\xa0\xa0h nicest boy world never\xa0\xa0beast fear would order made disturb serv crimea seem regard dilapidated\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0 brother papa life wont failur saidat dinner forgot said beth put jo topsyturvi basketeloqu one suffer escap made deep impressionthen other john good exampl soul chines chines woke paralysis\xa0\xa0and half pleas energet measures\xa0\xa0an air relief want someon help wear one suit cloth gave out\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0 wear one suit cloth gave outdim dust wornsoon heard friendli critic pass upon careercut tree rail remind sailor boy courtyard game interrupt abrupt entranc of\xa0\xa0when littl piano ami mind nice take\xa0\xa0th best peopl often come alon old gentleman sure passeng stay huddl dark cabin\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0 youth gay dress gilt earringswhat happen first sat dazedi got seeill point say there model lad strip emerald green oz fanci make balloon\xa0\xa0up poke book hand rod fell\xa0\xa0that need lesson patienc sweetli taught like know john firmli establish in\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0 bottl june rain water maid tell betterund guileless girlish pretti charmingwip damp forehead look deep compassionh hat la lauri away went jo feel like shorn sheep readier open heart than\xa0\xa0fanc help think bride dress with\xa0\xa0butt sunder heart patient though way mine for\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0\xa0 great honor motherland probabl someoney

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  'best love drg best store',
  'she want better sex all need']

### 1.1.9 Aplicamos la vectorización a los datos

```
[33]: vectorizer = CountVectorizer()
      X_train = vectorizer.fit_transform(X_train)
```

```
[34]: print(X_train.toarray())
      print("\nFeatures:", len(vectorizer.get_feature_names_out()))
```

```
[[0 0 0 … 0 0 0]
 [0 0 0 … 0 0 0]
 [0 0 0 … 0 0 0]
 …
 [0 0 0 … 0 0 0]
 [0 0 0 … 0 0 0]
 [0 0 0 … 0 0 0]]

Features: 4981
```

```
[35]: import pandas as pd
      pd.DataFrame(X_train.toarray(), columns=[vectorizer.get_feature_names_out()])
```

[35]:

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| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | … | 0 | 0 | 0 | |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | … | 0 | 0 | 0 | |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | … | 0 | 0 | 0 | |
| .. | … | … | … | .. | .. | … | .. | .. | … | … | … | … | .. | .. | |
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| 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | … | 0 | 0 | 0 | |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | … | 0 | 0 | 0 | |
| 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | … | 0 | 0 | 0 | |
| 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | … | 0 | 0 | 0 | |

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4         0       0  0  0   0        0  0
..      …       …  .. ..  ..       …  ..
93        0       0  0  0   0        0  0
94        0       0  0  0   0        0  0
95        0       0  0  0   0        0  0
96        0       0  0  0   0        0  0
97        0       0  0  0   0        0  0

[98 rows x 4981 columns]
```

[36]: `y_train`

[36]: ['spam',
      'ham',
      'spam',
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      'spam',
      'spam',
      'spam',
      'spam',
      'ham',
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```

Entrenamiento del algoritmo de regresión logística con el conjunto de datos preprocesado

```
[37]: from sklearn.linear_model import LogisticRegression
      clf = LogisticRegression()
      clf.fit(X_train, y_train)
```

```
[37]: LogisticRegression()
```

### 1.1.10   1.1.5 4. Predicción

Lectura de un conjunto de correos nuevos

```
[38]: # Leemos 150 correos de nuestro conjunto de datos y nos quedamos únicamente con␣
      ↪los 50 últimos
      # Estos 50 correos electrónicos no se han utilizado para entrenar el algoritmo

      X, y = create_prep_dataset("datasets/trec07p/full/index", 150)
      X_test = X[100:]
      y_test = y[100:]
```

Parsing email: 150

Preprocesamiento de los correos con el vectorizador creado anteriormente

```
[39]: X_test = vectorizer.transform(X_test)
```

Predicción del tipo de correo

```
[40]: y_pred = clf.predict(X_test)
      y_pred
```

```
[40]: array(['spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'ham',
             'spam', 'spam', 'spam', 'spam', 'spam', 'ham', 'spam', 'spam',
             'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam',
             'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam',
             'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam',
             'spam', 'spam', 'spam', 'spam', 'spam', 'spam'], dtype='<U4')
```

```
[42]: print("Predicción:\n", y_pred)
      print("\nEtiquetas reales:\n", y_test)
```

```
Predicción:
 ['spam' 'spam' 'spam' 'spam' 'spam' 'spam' 'spam' 'ham' 'spam' 'spam'
 'spam' 'spam' 'spam' 'ham' 'spam' 'spam' 'spam' 'spam' 'spam' 'spam'
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 'spam' 'spam' 'spam' 'spam' 'spam' 'spam']

Etiquetas reales:
 ['spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'ham', 'spam', 'spam',
'spam', 'spam', 'spam', 'ham', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam',
'ham', 'spam', 'spam', 'ham', 'spam', 'ham', 'spam', 'spam', 'spam', 'spam',
'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam', 'spam',
'spam', 'spam', 'spam', 'spam', 'spam', 'spam']
```

### 1.1.11 Evaluación de los resultados

```
[43]: from sklearn.metrics import accuracy_score
      print('Accuracy: {:.3f}'.format(accuracy_score(y_test, y_pred)))
```

```
Accuracy: 0.935
```

### 1.1.12 1.1.6 5. Aumentando el conjunto de datos

```
[44]: # Leemos 12000 correos electrónicos
      X, y = create_prep_dataset("datasets/trec07p/full/index", 12000)
```

```
Parsing email: 12000
```

```
[45]: # Utilizamos 10000 correos electrónicos para entrenar el algoritmo y 2000 para
      ↪realizar pruebas

      X_train, y_train = X[:10000], y[:10000]
      X_test, y_test = X[10000:], y[10000:]
```

```
[46]: vectorizer = CountVectorizer()
      X_train = vectorizer.fit_transform(X_train)
```

```
[47]:  clf = LogisticRegression()
       clf.fit(X_train, y_train)
```

[47]:  LogisticRegression()

```
[48]:  X_test = vectorizer.transform(X_test)
```

```
[49]:  y_pred = clf.predict(X_test)
```

```
[50]:  print('Accuracy: {:.3f}'.format(accuracy_score(y_test, y_pred)))
```

       Accuracy: 0.987

       GIT HUB

[ ]: