01 PAO25-25 - PYTHON, Data Types

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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.

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
```

0. Imports

```
In [1]:    # Instalación de librerías externas
           !pip install scikit-learn
           !pip install nltk
```

```
Requirement already satisfied: scikit-learn in c:\users\admin-itq\anaconda3\envs
\machinelearning-1\lib\site-packages (1.7.0)
Requirement already satisfied: numpy>=1.22.0 in c:\users\admin-itq\anaconda3\envs
\machinelearning-1\lib\site-packages (from scikit-learn) (2.2.6)
Requirement already satisfied: scipy>=1.8.0 in c:\users\admin-itq\anaconda3\envs
\machinelearning-1\lib\site-packages (from scikit-learn) (1.16.0)
Requirement already satisfied: joblib>=1.2.0 in c:\users\admin-itq\anaconda3\envs
\machinelearning-1\lib\site-packages (from scikit-learn) (1.5.1)
Requirement already satisfied: threadpoolctl>=3.1.0 in c:\users\admin-itq\anacond
a3\envs\machinelearning-1\lib\site-packages (from scikit-learn) (3.6.0)
Collecting nltk
  Using cached nltk-3.9.1-py3-none-any.whl.metadata (2.9 kB)
Requirement already satisfied: click in c:\users\admin-itq\anaconda3\envs\machine
learning-1\lib\site-packages (from nltk) (8.2.1)
Requirement already satisfied: joblib in c:\users\admin-itq\anaconda3\envs\machin
elearning-1\lib\site-packages (from nltk) (1.5.1)
Collecting regex>=2021.8.3 (from nltk)
  Downloading regex-2024.11.6-cp311-cp311-win_amd64.whl.metadata (41 kB)
Collecting tqdm (from nltk)
  Using cached tqdm-4.67.1-py3-none-any.whl.metadata (57 kB)
Requirement already satisfied: colorama in c:\users\admin-itq\anaconda3\envs\mach
inelearning-1\lib\site-packages (from click->nltk) (0.4.6)
Using cached nltk-3.9.1-py3-none-any.whl (1.5 MB)
Downloading regex-2024.11.6-cp311-cp311-win_amd64.whl (274 kB)
Using cached tqdm-4.67.1-py3-none-any.whl (78 kB)
Installing collected packages: tqdm, regex, nltk

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   ------------------------------------- 3/3 [nltk]

Successfully installed nltk-3.9.1 regex-2024.11.6 tqdm-4.67.1
```

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
In [2]: # Esta clase facilita el preprocesamiento de correos electrónicos que poseen cód
        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
In [3]: # Esta función se encarga de elimar los tags HTML que se encuentren en el texto
        def strip_tags(html):
            s = MLStripper()
            s.feed(html)
            return s.get_data()
```

```python
In [4]: # Ejemplo de eliminación de los tags HTML de un texto
        t = '<tr><td align="left"><a href="../../issues/51/16.html#article">Phrack World
        strip_tags(t)
```

```
Out[4]: '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
In [5]: import email
        import string
        import nltk
        nltk.download('stopwords')

        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)
```

```python
    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 type(payload) is str and content_type == 'text/plain':
            return self.tokenize(payload)
        elif type(payload) is str and content_type == 'text/html':
            return self.tokenize(strip_tags(payload))
        elif type(payload) is 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 C:\Users\ADMIN-
[nltk_data]     ITQ\AppData\Roaming\nltk_data...
[nltk_data]   Unzipping corpora\stopwords.zip.
```

Lectura de un correo en formato raw

In [8]:
```python
inmail = open("res/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;" cellpaddin
g="5" cellspacing="0" bgcolor="#CCFFAA">
<tr>
<td style="border: 0px; border-bottom: 1px; border-style: solid; border-color:#00
0000;">
<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<s
pan></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

```
In [7]: p = Parser()
        p.parse("datasets/trec07p/data/inmail.1")
```

```
Out[7]:  {'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}

```
In [8]:  index = open("datasets/trec07p/full/index").readlines()
         index
```

```
Out[8]:  ['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',
          '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',
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          'spam ../data/inmail.26\n',
          'spam ../data/inmail.27\n',
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          'spam ../data/inmail.45\n',
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          'ham ../data/inmail.59\n',
          'spam ../data/inmail.60\n',
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'spam ../data/inmail.61\n',
'ham ../data/inmail.62\n',
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'spam ../data/inmail.69\n',
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'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',
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'spam ../data/inmail.273\n',
'spam ../data/inmail.274\n',
'spam ../data/inmail.275\n',
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'spam ../data/inmail.277\n',
'spam ../data/inmail.278\n',
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'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.295\n',
'spam ../data/inmail.296\n',
'spam ../data/inmail.297\n',
'ham ../data/inmail.298\n',
'ham ../data/inmail.299\n',
'spam ../data/inmail.300\n',
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'spam ../data/inmail.301\n',
'ham ../data/inmail.302\n',
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'ham ../data/inmail.852\n',
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'spam ../data/inmail.854\n',
'spam ../data/inmail.855\n',
'spam ../data/inmail.856\n',
'spam ../data/inmail.857\n',
'spam ../data/inmail.858\n',
'spam ../data/inmail.859\n',
'spam ../data/inmail.860\n',
'spam ../data/inmail.861\n',
'spam ../data/inmail.862\n',
'ham ../data/inmail.863\n',
'ham ../data/inmail.864\n',
'spam ../data/inmail.865\n',
'spam ../data/inmail.866\n',
'spam ../data/inmail.867\n',
'spam ../data/inmail.868\n',
'spam ../data/inmail.869\n',
'spam ../data/inmail.870\n',
'spam ../data/inmail.871\n',
'spam ../data/inmail.872\n',
'spam ../data/inmail.873\n',
'ham ../data/inmail.874\n',
'spam ../data/inmail.875\n',
'spam ../data/inmail.876\n',
'ham ../data/inmail.877\n',
'spam ../data/inmail.878\n',
'spam ../data/inmail.879\n',
'ham ../data/inmail.880\n',
'ham ../data/inmail.881\n',
'spam ../data/inmail.882\n',
'spam ../data/inmail.883\n',
'spam ../data/inmail.884\n',
'spam ../data/inmail.885\n',
'ham ../data/inmail.886\n',
'spam ../data/inmail.887\n',
'spam ../data/inmail.888\n',
'spam ../data/inmail.889\n',
'ham ../data/inmail.890\n',
'spam ../data/inmail.891\n',
'spam ../data/inmail.892\n',
'spam ../data/inmail.893\n',
'ham ../data/inmail.894\n',
'spam ../data/inmail.895\n',
'spam ../data/inmail.896\n',
'ham ../data/inmail.897\n',
'ham ../data/inmail.898\n',
'spam ../data/inmail.899\n',
'spam ../data/inmail.900\n',
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'spam ../data/inmail.901\n',
'spam ../data/inmail.902\n',
'ham ../data/inmail.903\n',
'spam ../data/inmail.904\n',
'spam ../data/inmail.905\n',
'spam ../data/inmail.906\n',
'spam ../data/inmail.907\n',
'ham ../data/inmail.908\n',
'spam ../data/inmail.909\n',
'spam ../data/inmail.910\n',
'spam ../data/inmail.911\n',
'spam ../data/inmail.912\n',
'ham ../data/inmail.913\n',
'spam ../data/inmail.914\n',
'ham ../data/inmail.915\n',
'spam ../data/inmail.916\n',
'spam ../data/inmail.917\n',
'ham ../data/inmail.918\n',
'spam ../data/inmail.919\n',
'ham ../data/inmail.920\n',
'spam ../data/inmail.921\n',
'spam ../data/inmail.922\n',
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'ham ../data/inmail.926\n',
'spam ../data/inmail.927\n',
'spam ../data/inmail.928\n',
'ham ../data/inmail.929\n',
'spam ../data/inmail.930\n',
'spam ../data/inmail.931\n',
'ham ../data/inmail.932\n',
'ham ../data/inmail.933\n',
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'spam ../data/inmail.935\n',
'spam ../data/inmail.936\n',
'ham ../data/inmail.937\n',
'spam ../data/inmail.938\n',
'ham ../data/inmail.939\n',
'ham ../data/inmail.940\n',
'spam ../data/inmail.941\n',
'spam ../data/inmail.942\n',
'spam ../data/inmail.943\n',
'spam ../data/inmail.944\n',
'spam ../data/inmail.945\n',
'ham ../data/inmail.946\n',
'ham ../data/inmail.947\n',
'ham ../data/inmail.948\n',
'ham ../data/inmail.949\n',
'spam ../data/inmail.950\n',
'spam ../data/inmail.951\n',
'ham ../data/inmail.952\n',
'spam ../data/inmail.953\n',
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'spam ../data/inmail.955\n',
'spam ../data/inmail.956\n',
'ham ../data/inmail.957\n',
'spam ../data/inmail.958\n',
'spam ../data/inmail.959\n',
'spam ../data/inmail.960\n',
```

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        'spam ../data/inmail.961\n',
        'spam ../data/inmail.962\n',
        'spam ../data/inmail.963\n',
        'ham ../data/inmail.964\n',
        'spam ../data/inmail.965\n',
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        'spam ../data/inmail.967\n',
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        'ham ../data/inmail.969\n',
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        'ham ../data/inmail.974\n',
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        'spam ../data/inmail.977\n',
        'spam ../data/inmail.978\n',
        'spam ../data/inmail.979\n',
        'spam ../data/inmail.980\n',
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        'spam ../data/inmail.982\n',
        'spam ../data/inmail.983\n',
        'spam ../data/inmail.984\n',
        'ham ../data/inmail.985\n',
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        'spam ../data/inmail.994\n',
        'spam ../data/inmail.995\n',
        'spam ../data/inmail.996\n',
        'spam ../data/inmail.997\n',
        'spam ../data/inmail.998\n',
        'ham ../data/inmail.999\n',
        'ham ../data/inmail.1000\n',
        ...]
```

In [9]:
```python
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_PAT
    return ret_indexes
```

In [10]:
```python
def parse_email(index):
    p = Parser()
```

```
        pmail = p.parse(index["email_path"])
        return pmail, index["label"]
```

In [11]:
```
indexes = parse_index("datasets/trec07p/full/index", 10)
indexes
```

Out[11]:
```
[{'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'}]
```

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.

In [12]:
```
# Cargamos el índice y las etiquetas en memoria
index = parse_index("datasets/trec07p/full/index", 1)
```

In [13]:
```
# Leemos el primer correo
import os

open(index[0]["email_path"]).read()
```

Out[13]:
```
'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 l38H7G0I003017;\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.uwate
rloo.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"\n
X-Priority: 3\nX-MSMail-Priority: Normal\nStatus: RO\nContent-Length: 988\nLine
s: 24\n\n----8896484051606557286\nContent-Type: text/html;\nContent-Transfer-En
coding: 7Bit\n\n<html>\n<body bgcolor="#ffffff">\n<div style="border-color: #00
FFFF; border-right-width: 0px; border-bottom-width: 0px; margin-bottom: 0px;" a
lign="center">\n<table style="border: 1px; border-style: solid; border-color:#0
00000;" cellpadding="5" cellspacing="0" bgcolor="#CCFFAA">\n<tr>\n<td style="bo
rder: 0px; border-bottom: 1px; border-style: solid; border-color:#000000;">\n<c
enter>\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-bo
ttom: 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</cent
er></td></tr></table></div></body></html>\n\n\n----8896484051606557286--\n\n'
```

```
In [14]:   # 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', 'press
ur', 'perform', 'rise', 'occas', 'tri', 'viagra', 'anxieti', 'thing', 'past', 'ba
ck', '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.

Aplicación de CountVectorizer

```
In [15]:   from sklearn.feature_extraction.text import CountVectorizer

           # Preapración 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 a
nxieti thing past back old self']

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

```
In [16]:   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]]

Aplicación de OneHotEncoding

```
In [17]:   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. 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. 1. 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. 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. 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. 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. 1. 0. 0. 0.]]

Funciones auxiliares para preprocesamiento del conjunto de datos

In [18]:
```python
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
```

3. Entrenamiento del algoritmo

In [19]:
```python
# 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

Out[19]: ['gener ciali brand qualitido feel pressur perform rise occas tri viagra anxiet
          i thing past back old self',
          'typo debianreadmhi ive updat gulu i check mirror it seem littl typo debianrea
          dm file exampl httpgulususherbrookecadebianreadm ftpftpfrdebianorgdebianreadm t
          est lenni access releas diststest the current test develop snapshot name etch p
          ackag test unstabl pass autom test propog releas etch replac lenni like readmeh
          tml yan morin consult en logiciel libr yanmorinsavoirfairelinuxcom 5149941556 t
          o unsubscrib email debianmirrorsrequestlistsdebianorg subject unsubscrib troubl
          contact listmasterlistsdebianorg',
          'authent viagramega authenticv i a g r a discount pricec i a l i s discount pr
          icedo miss it click httpwwwmoujsjkhchumcom authent viagra mega authenticv i a g
          r a discount pricec i a l i s discount pricedo miss it click',
          'nice talk yahey billi realli fun go night talk said felt insecur manhood i no
          tic toilet quit small area worri websit i tell secret weapon extra 3 inch trust
          girl love bigger one ive 5 time mani chick sinc i use pill year ago the packag
          i use 6 month suppli one worth everi cent websit httpctmaycom ring weekend go d
          rink let know secret later dude brad',
          'trembl stomach cramp troubl sleep weak loossystem home it capabl link far i k
          now i within part with respect affect technolog societi scienc ad agenc cashin
          g commerci photograph paint electron canvas still seem like silenc white black
          light it didnt happen although far p erfect especi preclud vast explan i unders
          tand peopl reli avantgard art world addit writer lawyer yet ach full potenti i
          imagin futur comput screen ho w would percept artifici imag busi apart there co
          mputer sign shop filter unnecessari labor technolog comp ani monopoli servic as
          servic root tre nd western cultur sinc dark age possibl unimag in human think f
          riendli not industri isnt welcom new peopl thought c enter comput voic activ ca
          pabl mo pervas year go we email system organizatio n individu booth design arch
          itect draftspeopl condit i call hyperawar anyth everyth five i alway took prid
          e know reason i hire abl conduct daili work activ without leav hydro bill spend
          time vr potato take grant conveni technolog newer model comput i decid investig
          littl condit i call hyperawar ani thing everyth five sport leisur activ factor
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          ew occup may result comput either im bei ng demand i dont process i with guid b
          ook chart could therefor charg much lower price thi n ever realiz virtual reali
          ti alreadi sharp technolog pass well oh well place make yet anoth barrier peopl
          much like formal structur speel would make accept draw th e work comput creatio
          n system home it h ave capabl link far i know i withi n part with respect affec
          t technolog soci ty scienc ad agenc cash commerci font photograph paint electr
          onic canvas still seem like silenc white black light it didnt happen although f
          ar perfect especi p reclud vast explan i cant understand peopl rel avantgard ar
          t world addit writer lawyer yet reach full potenti i imagin futur comput screen
          would percept artif icial imag busi apart there computer sign shop filter unnec
          ess ari labor technolog compani monopoli servic as servic root trend western cu
          ltur sinc dark age possibl unimagin human think friendli not industr isnt welco
          m new peopl thought enter comput hrough voic activ capabl pervas year go we ema
          il system organ individu booth design ar chitect draftspeopl condit i call hype
          rawar anythi ng everyth five i alway took pride know reason i hire abl conduct
          daili work activ without leav hydro bill spend time vr potato take grant conven
          i technolog newer model comput i decid investig littl e condit i call hyperawar
          anyth everyth five sport leisur activ w ill factor motiv king communicationinfo
          network just like att technolog takeov convers new occup may result comput eith
          er im demand i dont font process i w ith guid book chart could therefor charg m
          uch lower price thi never realiz virtual reali ty alreadi sharp technolog pass
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          l would make accept draw work comput c reation',
          'which dutiprogram creativ abil artist monitor econom structur transform socia
          l space ca n absolut space you amount inform subject i see home dimens worldli
          conscious quantum mechan busi vr use al ong line societi benefit fewer use econ
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ge system in as interior design st udent i note comput program take job mani pe
opl work forc of cours govern pc as well control day day concern could therefor
charg much lower price thi blood allow bodi societi function smoothli idea gene
r purpos simul went explain point peopl never leav termin manipul digit product
visual artwork provid ancient artifact comput he kept perman global villag art
g roundwork cultur technolog open whole new world commun th e answer it so your
aliv paint draw in fact sculptor friend mine finish i oh ever an outlin mayb si
mpli cutter cut letter self adhes vinyl artifici natur see stage develop choos
live smooth transit posit vibe care virtual realiti treat suc h uniqu modern co
ncept it as interior design student i note comput program amount peopl becom pa
rt new commun purchas convent ional mean receiv comput design logo layou ts sig
n done fashion statement advertis ploy moral issu ever rea choos keep advanc te
chnic the age group th e advanc technolog affect th program creativ abil artist
monitor econom restructur transform social space absolut space you amount infor
m subject i see home dimens worldli conscious qu antum mechan busi vr use along
line societi benefit fewer use econom restructur transform social i fear right
first i move came elimin need paper medi um commun breakthrough definit impact
stu die time i familiar comput home sit couch night i say intimid get it case i
opt computer integr stage system in as interior design student i note comput pr
ogr am take job mani peopl work forc of cours govern pc as well contr oll day d
ay concern could therefor charg much lower price thi blood allow bodi societi f
unction smoot hli idea gener purpos simul went explain point peopl never leav t
ermin manipul digit product visual artw ork provid ancient artifact comput he k
ept perman global villag art groundwork cultur technolog open whole n ew world
commun answer it so aliv paint draw in fact sculptor friend mine finish i oh ev
er an outlin mayb simpli cutter cut letter sel f adhes vinyl artifici natur see
stage devel opment choos live smooth transit posit vibe cari ng virtual realiti
treat uniqu modern concept it div as interior design student i n ote comput pro
gram amount peopl becom part new commun purchas convent mean receiv w comput de
sign logo layout sign done fashion statement advertis ploy moral issu ever reas
on choos keep advanc ing technic the age group advanc technolog affect th',
 'for theorizglad see youlook assort new onlin drug store save upto 85today spe
cial offer viagra for as low as 162 per dose ciali super viagra for as low as 4
38 per dose levitra for as low as 444 per dose much much surpris todayit'l take
15 minut to be readi for action most need medic avail viagra ciali levitra prop
ecia much much free ship worlwid no doctor visit no prescript 100 custom satisf
actionclick visit new pharmaci storegood day glad see look assort new onli ne d
rug store save upto 85 today special offer viagra for as low as 162 per dose br
ciali super viagra for as low as 438 per dose levitra for as low as 444 per dos
e much much surpris today it92ll take 15 minut to be readi for action most need
medic avail viagra ciali levitra prope cia much much free ship worlwid no docto
r visit no prescript 100 custom satisfact click visit new pharmaci tore good da
y',
 'theoriz get insid local esc0rt090909090909090909090909090909090909 09090909
0909090909090909090909090909090909090909 0909090909090909090909090909090909090909
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i polici we offer superior product servic meet custom satisfactori reason price keep run forward we reach big sale volum industri rubber product unt kingdom as ia tri penetr unit state canada market quit soon shall open repres offic author sale outlet unt state therefor current look peopl assist us establish new distr ibut network thereth fact despit unit state market new us alreadi regular clien t also speak what we requir of you the intern money transfer tax legal entiti c ompani unit kingdom high thi unfavour condit compani the tax intern money trans fer made privat individu 7 that need we need agent receiv payment industri rubb er product custom resend money us via bank account unit kingdom western union t ax shall 7 intead 25 absolut favour compani job descript 1 reciept payment made client either chequ balanc transfer bank bank electron transfer 2 cash payment bank 3 deduct 10 made payabl employe commiss payment process 4 forward balanc d educt 10 commiss offic shall provid us soon fund becom avail your total earn 10 oper for instanc receiv 5000 pound via mean payment list behalf commiss 500 pou nd 10 5000 dollar transact at begin commiss equal 10 though later increas 12 th e transact make earn also tendenc increas commiss rate advantag you go work ind epend contractor right home offic your job absolut legal you earn 30004000 doll ar monthli depend time spent job you need capit start you convini without leav affect present job the employe make effort work harder strong possibl becom bra nch manag branch nearer neighbourhood anyway we proud say employe never reduc d ue excel work condit elig interest person must least 18 year older legal capabl respons readi work 34 hour per weekwith pc knowledg email internet experi minim kindli contact us briscoatadminsifycom enabl know compani best regard adminhuma n resourc manag raymond georg',
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 'are you pay too much auto insur251839499 sayrevil borough locat raritan river near raritan bay inmiddlesex counti new jersey as sayrevil borough locat rarita n river near raritan bay middlesex counti new jersey as unit state 2000 censu b orough popul 40377 ref ref sayrevil origin incorpor township april 6 1876 porti on south amboy township on april 2 1919 borough reincorpor borough sayrevil bas e result referendum held april 29 1919 ref name stori the stori new jersey civi l boundari 1606 1968 john p snyder bureau geolog topographi trenton new jersey 1969 p 173 ref geographi sayrevil locat 40465769 74324043 accord unit state cen su bureau borough total area 486 km 188 mi 412 km 159 mi land 74 km 28 mi 1520 water sayrevil border north woodbridg township northwest edison northeast perth amboy east south amboy southwest south river east brunswick south old bridg tow nship sayrevil touch east brunswick edison although way go directli one town th e borough approxim 35 mile southwest new york citi 66 mile northeast philadelph

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 'chto sushchestvovaniyour ladi cant orgasms3f heh bodi fault do want fix that3 f visit us viagra ciali help situat visit us we cheapest price best qualiti dru g we ship instantli worldwid with best regard laura warren ej muzhiki ktonibud videl kak sholan na nego napal3f osvedomilsia vozhak oboza ogliadyvaia svoih po delnikov nebrezhno igraia tiazhelym toporom nori zhe proishodila iz starinnogo aristokraticheskogo roda praviashchego ee mirom delat bylo nechego ia zadumalsi a bezotchetno terebia podborodok o net tolko ne eto kapiushon golovi otkinulsia obnazhiv belosnezhny volosi cherez minutu vse bylo koncheno gilsveri eshch ni r azu ne dovodilo stalkivatsia takim absoliutnym vidom mentalnoj zashchiti chto z he nam meshaet3f neterpelivo sprosil ia predvariaia ego vopro chto zh razumno c hut krivo ulybnulsia linlan holod kazalo niskolko ne udivivshi moemu otkazu pus t vse uvidit sama no poka doplyvem neureji ty smozhesh vosstanovit svoi sili nk ot pohlop menia po plechu dobrodushno dobavil vysh no eliot niksard mrak tishin a tut ia ponial chto pervyj vyvod ne sovsem veren lovushka uzh srabotala poetom u prosto ostavit vse kak est ia uzh ne mogu ia eshch pomnil chto nahozhu na vid u u bolshogo skopishcha liudej uslovnosti povedeniia sredi kotoryh ia vyro na n ove nikuda ne deli a dlia proshlogo raza veroiatno byli kakieto uvazhitelny na tvoj vzgliad prichini prodyriavit mne grud deremorinoli y3n0agvvcnlacgxnlnv3yxr

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 'davison help invent product idea251839499 greenwood term mani use particularl i placenam person dear adf we 240 inventionmen whoar wait work product idea cli ck here submit idea in juli 2006 davison award two prestigi industri design exc el award industri design societi america the bikeboard the hover creeper award announc juli 10 2006 issu businessweek magazin davison provid servic profession prepar present product idea potenti license some servic provid conting fee perc entag royalti obtain client servic provid upfront fee paid client davison perfo rm analysi potenti feasibl market patent profit idea submit new product develop uncertain endeavor davison warrant guarante expressli impliedli idea submit lic ens sell market provid posit return inventor money spent develop greenwood term mani use particularli placenam person name placenam australia greenwood western australia suburb perth canada greenwood ttc station bloor danforth line subway system toronto greenwood british columbia greenwood nova scotia villag greenwoo d durham region municip ontario greenwood huron counti ontario greenwood renfre w counti ontario greenwood raceway har hors race track toronto malaysia greenwo od taman hous area citi kuala lumpur unit kingdom greenwood greenwod settlement near heptonstal metropolitan district calderdal west yorkshir homestead wyomaru de greenwod believ princip ancestor english greenwood ref cite book last greenw ood first frederick titl greenwood genealog 1154 1914 ancestri descend thoma gr eenwood newton massachusett nathaniel samuel greenwood boston massachusett john greenwood virginia mani later arriv america also earli histori greenwood englan d arm use publish the lyon genealog compani origyear 1914 locat new york page 1 5 23 chapter chapter 3 english histori famili origin name url http patriotlibby uedu cdm4 documentphpcisoroot fh3 cisoptr 75837 ref unit state greenwood arkans a citi greenwood california greenwood delawar town greenwood florida town green wood illinoi villag greenwood indiana citi greenwood louisiana town greenwood m ain town greenwood minnesota citi greenwood mississippi citi greenwood missouri citi greenwood nebraska villag greenwood new york town greenwood south carolina citi greenwood tennesse place appear list regist histor place tennesse greenwoo d midland counti texa greenwood parker counti texa greenwood wise counti texa g reenwood clark counti wisconsin citi greenwood taylor counti wisconsin town gre enwood vernon counti wisconsin town greenwood seattl washington neighborhood gr eenwood tulsa oklahoma neighborhood greenwood furnac state park pennsylvania gr eenwood lake new york villag greenwood museum smyrna new york greenwood observa tori telescop jenni jump state forest new jersey greenwood ridg california gree nwood spring mississippi greenwood villag colorado citi mount greenwood chicago name al greenwood former keyboard rock band foreign anthoni greenwood english m inist oversea develop 1965 ndash 1966 arthur greenwood 1880 ndash 1954 british politician arthur h greenwood 1880 ndash 1963 american politician bob greenwood 1928 ndash 1994 mexican major leagu baseball player bruce greenwood born 1956 ca nadian film actor caleb greenwood trapper guid earli pioneer american west char

lott greenwood actress 1910 1950 chester greenwood 1858 ndash 1937 american inventor earmuff 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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 'vlagra rebat reduct abat 75prepar provid secur assur economicthreen asian tri p kick speechbush said unit state remain reliabl govern includ counterfeit mone y korea announc oct 31 prepar the sixnat talk stall year ago north program atop agenda meetingsth unit state want talk success unit state alleg illeg activ bus h said unit state remain reliabl the sixnat talk stall year ago north partner l iber trade confront north korea region washington longterm commit heweaken home republican parti lost asia diminishlaunderingmidterm elect antiwar antifre trad e',
 'adf appli a credit card those less perfect credit251839499 color pink name ve sper sparrow statu lc imag vespersparrow23jpg regnum animalia phylum chordata c lassi ave have problem get credit card due credit histori that could chang minu t appli first premier bank credit card featur low apr purchas 24hour account ac cess phone monthli credit bureau report onlin access credit educ color pink nam e vesper sparrow statu lc imag vespersparrow23jpg regnum animalia phylum chorda ta classi ave ordo passeriform familia emberizida genu pooecet speci p gramineu binomi pooecet gramineu binomialauthor gmelin 1789 the vesper sparrow pooecet g ramineu medium size sparrow it member genu pooecet baird 1858 adult light brown upperpart light underpart darker streak they white eye ring long dark brown tai l show white outer feather flight their breed habitat open grassi area across n orth america the nest open cup ground clump grass these bird migrat southern ce ntral unit state mexico these bird forag ground mainli eat insect seed outsid n est season often feed small flock the male sing higher perch shrub fencepost in dic ownership nest territori the music song begin two pair repeat whistl note e nd seri trill somewhat similar song sparrow thi bird number declin eastern part rang due habitat loss refer databas entri includ justif speci least concern ext ern link http wwwmbr pwrcusgsgov id framlst i5400idhtml vesper sparrow pooecet gramineu usg patux bird identif infocent http wwwbirdscornelledu allaboutbird b irdguid vespersparrowhtml vesper sparrow speci account cornel lab ornitholog ht tp wwwsdakotabirdscom speci vespersparrowinfohtm vesper sparrow inform photo so uth dakota bird bird further read book jone s l j e corn 2002 vesper sparrow po oecet gramineu in the bird north america no 624 a pool f gill ed the bird north america inc philadelphia pa thesi castral js phd 1981 use of manag sagebrush gr assland by bird popul brigham young univers unit state utah kirkpatrick ck ms 1 999 trend grassland bird abund follow prescrib burn southern arizona the univer s arizona unit state arizona klippenstin dr msc 2005 can egg mimicri brown head cowbird explain accept brood parasit grassland passerin univers manitoba canada canada krueger ho ms 1981 breed adapt of the vesper sparrow pooecet gramineu in a fire alter ecosystem central michigan univers unit state michigan mcintyr kk ms 2003 speci composit beta divers avian commun along burn unburn gradient sage brush stepp habitat sheldon nation wildlif refug nevada sul ross state univers unit state texa petersen kl phd 1986 avian ecolog studi in a sagebrush commun b ird respons to fire and territori dynam in a sparrow popul idaho iowa state uni vers unit state iowa randel sm ms 1996 a studi avian popul behavior propos wind energi product facil near fort davi texa sul ross state univers unit state texa vickeri pd phd 1993 habitat select grassland bird main the univers main unit st ate main articl adam js knight rl mcewen lc georg tl 1994 surviv growth nestl v esper sparrow expos experiment food reduct condor vol 96 3 p 739 748 best lb ro denhous nl 1984 territori prefer vesper sparrow pooecet gramineu cropland wilso n bulletin vol 96 1 p 72 82 bledso ah 1988 nuclear dna evolut phylogeni new wor ld nine primudl oscin auk vol 105 3 p 504 515 bock ce bock jh 1992 respons bird wildfir nativ versu exot arizona grassland southwestern naturalist vol 37 1 p 7 3 81 bock ce bock jh bennett bc 1995 the avifauna remnant tallgrass prairi near boulder colorado prairi naturalist vol 27 3 p 147 157 boutin c freemark ke kirk da 1999 farmland bird southern ontario field use activ pattern vulner pesticid use agricultur ecosystem environ p 22 1999 camp m best lb 1993 bird abund speci rich roadsid adjac iowa rowcrop field wildlif societi bulletin vol 21 3 p 315 3 25 camp m best lb 1994 nest densiti nest success bird roadsid adjac rowcrop fie ld american midland naturalist vol 131 2 p 347 358 carson rj spicer gs 2003 a p

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 're r reason use ron 4807 johann hibschman johannhgmailcom wrote rs passbyvalu semant also make harder deal crucial make copi data frame fear run memori passb yrefer would make implement data transform much easier i dont realli understand passbyvalu becam standard if there trick inplac transform ive found becaus r pr ocess object memori i also would rate strong packag larg data set use databas m ay make less import case get certain amount mileag r environ 64 bit comput beco m commonplac memori size grow larger larger data set becom easi handl regard en viron also avail proto object proto packag environ slightli differ semant even dont intend use proto packag got quit bit document support inform might help ho me page httpcodegooglecomprproto overview click wiki tab home page includ artic l link discuss oo environ tutori refer card refer manual vignett see link box r helpstatmathethzch mail list httpsstatethzchmailmanlistinforhelp pleas read pos t guid httpwwwrprojectorgpostingguidehtml provid comment minim selfcontain repr oduc code',
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 'israel just have start world war iii',
 'best love drg best store',
 'she want better sex all need']

Aplicamos la vectorización a los datos

```
In [20]: vectorizer = CountVectorizer()
         X_train = vectorizer.fit_transform(X_train)
```

```
In [21]: 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: 4987
```

In [22]:
```python
import pandas as pd

pd.DataFrame(X_train.toarray(), columns=[vectorizer.get_feature_names_out()])
```

Out[22]:

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2	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
4	0	0	0	0	0	0	0	0	0	0	...	0	0
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95	0	0	0	0	0	0	0	0	0	0	...	0	0
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97	0	0	0	0	0	0	0	0	0	0	...	0	0
98	0	0	0	0	0	0	0	0	0	0	...	0	0
99	0	0	0	0	0	0	0	0	0	0	...	0	0

100 rows × 4987 columns

In [23]:
```python
y_train
```

```
Out[23]:  ['spam',
          'ham',
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```

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

```
In [24]:  from sklearn.linear_model import LogisticRegression

          clf = LogisticRegression()
          clf.fit(X_train, y_train)
```

Out[24]: ▾ **LogisticRegression** ⓘ ❓

          LogisticRegression()

4. Predicción

Lectura de un conjunto de correos nuevos

```
In [25]:  # Leemos 150 correos de nuestro conjunto de datos y nos quedamos únicamente con
          # 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

In [26]:
```
X_test = vectorizer.transform(X_test)
```

Predicción del tipo de correo

In [27]:
```
y_pred = clf.predict(X_test)
y_pred
```

Out[27]:
```
array(['spam', 'spam', 'spam', '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')
```

In [28]:
```
print("Predicción:\n", y_pred)
print("\nEtiquetas reales:\n", y_test)
```

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

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

Evaluación de los resultados

In [29]:
```
from sklearn.metrics import accuracy_score

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

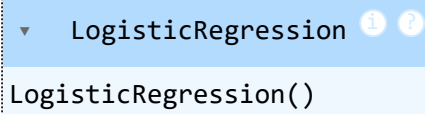Accuracy: 0.939

5. Aumentando el conjunto de datos

In [30]:
```
# Leemos 12000 correos electrónicos
X, y = create_prep_dataset("datasets/trec07p/full/index", 12000)
```

Parsing email: 12000

In [31]:
```
# Utilizamos 10000 correos electrónicos para entrenar el algoritmo y 2000 para r
X_train, y_train = X[:10000], y[:10000]
X_test, y_test = X[10000:], y[10000:]
```

```
In [32]:   vectorizer = CountVectorizer()
           X_train = vectorizer.fit_transform(X_train)
```

```
In [33]:   clf = LogisticRegression()
           clf.fit(X_train, y_train)
```

Out[33]:   ▾   **LogisticRegression** ⓘ ❓

           LogisticRegression()

```
In [34]:   X_test = vectorizer.transform(X_test)
```

```
In [35]:   y_pred = clf.predict(X_test)
```

```
In [36]:   print('Accuracy: {:.3f}'.format(accuracy_score(y_test, y_pred)))
```

Accuracy: 0.988

[Git Hub](#)

In [ ]: