

# Spam classifier

March 22, 2020

## 1 Spam Classifier

### 1.0.1 Extract, transform and load data

```
[51]: import pandas as pd
import numpy as np
import re
raw = pd.read_csv('spam.csv', delimiter = ',', encoding='latin-1')
raw.head()
```

```
[51]:      v1                                     v2 Unnamed: 2  \
0  ham  Go until jurong point, crazy.. Available only ...      NaN
1  ham                                     Ok lar... Joking wif u oni...      NaN
2  spam  Free entry in 2 a wkly comp to win FA Cup fina...      NaN
3  ham  U dun say so early hor... U c already then say...      NaN
4  ham  Nah I don't think he goes to usf, he lives aro...      NaN

      Unnamed: 3 Unnamed: 4
0           NaN          NaN
1           NaN          NaN
2           NaN          NaN
3           NaN          NaN
4           NaN          NaN
```

Drop useless columns and NaN values

```
[52]: raw.drop(['Unnamed: 2' , 'Unnamed: 3' , 'Unnamed: 4'], axis=1, inplace=True)
raw = raw.dropna(how='any',axis=0)# drop Nan rows
raw.head()
```

```
[52]:      v1                                     v2
0  ham  Go until jurong point, crazy.. Available only ...
1  ham                                     Ok lar... Joking wif u oni...
2  spam  Free entry in 2 a wkly comp to win FA Cup fina...
3  ham  U dun say so early hor... U c already then say...
4  ham  Nah I don't think he goes to usf, he lives aro...
```

Creating the columns of our desired dataset

```
[53]: columns=[]
rows = []
y = list(row.v1)#lo usaremos luego
for i in range (0,len(row.v2)):
    try:
        rows.append(re.sub("[^\w]", " ", row.v2[i]).lower().split())
        columns = columns + re.sub("[^\w]", " ", row.v2[i]).lower().split()
    except:
        print('Error in:',row.v2[i])
```

```
[54]: from collections import Counter
counts = Counter(columns)#dict to value which fields we want to keep (it isn't
↳possible keep the 10000 words)
print(counts)
```

```
Counter({'i': 3001, 'to': 2242, 'you': 2240, 'a': 1433, 'the': 1328, 'u': 1192,
'and': 979, 'in': 898, 'is': 890, 'me': 802, 'my': 762, 'it': 744, 'for': 704,
'your': 681, 'of': 620, 'call': 591, 'that': 577, 'have': 575, 's': 568, 'on':
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1, 'lowes': 1, 'salesman': 1, '087187272008': 1, 'now1': 1, 'pity': 1,
'suggestions': 1, 'bitching': 1})
```

Define the columns for the small dataset.

```
[123]: columns = list(dict.fromkeys(columns))#delete repeated values
counts_list = [key for key, _ in counts.most_common()]
df_columns = counts_list[0:100]
df_columns.append('y')
print(df_columns)
```

```
['i', 'to', 'you', 'a', 'the', 'u', 'and', 'in', 'is', 'me', 'my', 'it', 'for',
'your', 'of', 'call', 'that', 'have', 's', 'on', '2', 'now', 'are', 'can', 't',
'so', 'but', 'not', 'm', 'or', 'do', 'we', 'at', 'get', 'be', 'if', 'will',
'ur', 'with', 'just', 'no', 'this', '4', 'gt', 'lt', 'how', 'up', 'å', 'when',
'ok', 'what', 'free', 'from', 'go', 'all', 'out', 'll', 'know', 'like', 'good',
'then', 'got', 'there', 'was', 'he', 'day', 'come', 'its', 'am', 'time', 'only',
'love', 'send', 'want', 'text', 'as', 'txt', 'one', '1', 'going', 'by', 'need',
'home', 'about', 'she', 'don', 'r', 'lor', 'today', 'sorry', 'see', 'stop',
'still', 'n', 'back', 'da', 'our', 'reply', 'k', 'dont', 'y']
```

Create dataset

```
[124]: binary_rows = np.zeros((len(rows),len(df_columns)),dtype=int)
for i in range(0, len(rows)):
    for k in range(0,len(rows[i])):
        if rows[i][k] in df_columns:
            binary_rows[i][df_columns.index(rows[i][k])]=1
        if k == (len(rows[i])-1) and y[i]=='spam':#si es spam=1
            binary_rows[i][100]=1
print(y[2])
print(binary_rows[2])
```

spam

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

```
[125]: dataframe = pd.DataFrame(binary_rows,columns=df_columns)
dataframe.head(5)
```

```
[125]:      i  to  you  a  the  u  and  in  is  me  ...  stop  still  n  back  da  our  \
0  0  0  0  0  0  0  0  0  1  0  0  ...  0  0  1  0  0  0
1  0  0  0  0  0  0  1  0  0  0  0  ...  0  0  0  0  0  0
2  0  1  0  1  0  0  0  1  0  0  0  ...  0  0  0  0  0  0
3  0  0  0  0  0  1  0  0  0  0  0  ...  0  0  0  0  0  0
4  1  1  0  0  0  0  0  0  0  0  0  ...  0  0  0  0  0  0

      reply  k  dont  y
0  0  0  0  0  0
1  0  0  0  0  0
2  0  0  0  0  1
3  0  0  0  0  0
4  0  0  0  0  0
```

[5 rows x 101 columns]

## 1.0.2 Neural Network

Dividimos los datos para entrenar y para testear la red neuronal

```
[126]: Y = (dataframe.y).to_numpy()
dataframe.drop(['y'], axis=1, inplace=True)
X = dataframe.to_numpy().T
size = int(X.shape[1] * 0.70)
x_train, x_test = X[:,0:size], X[:,size:]
y_train, y_test = Y[0:size], Y[size:]
```

Entrenamos la red con el algoritmo gradient descent, lr=0.02 y arquitectura 100-25-1

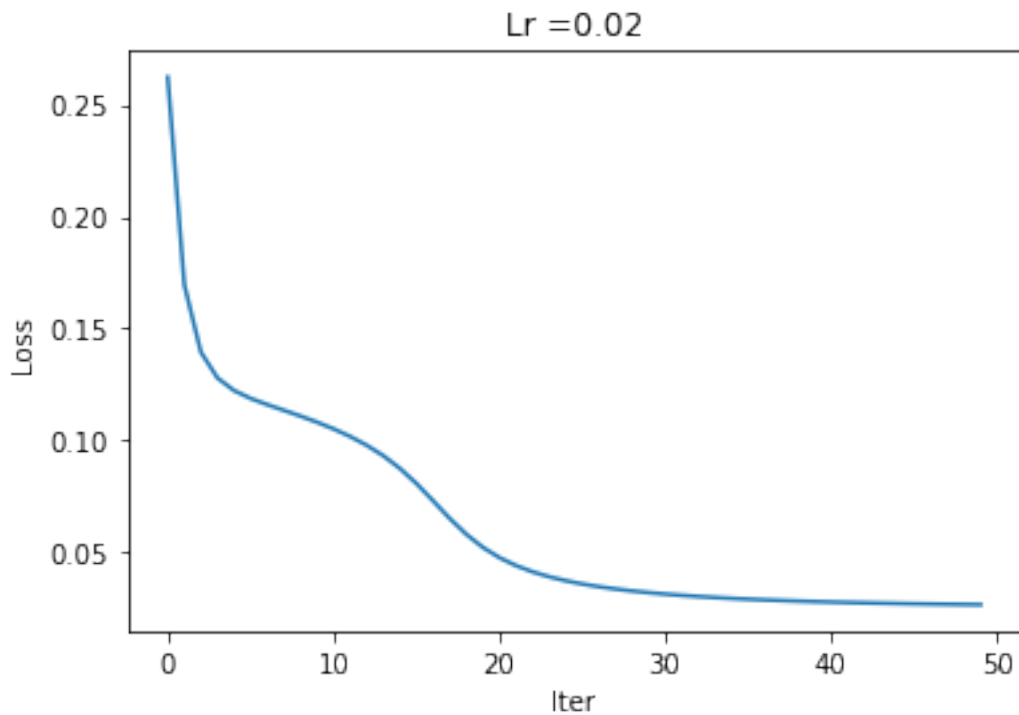
```
[127]: from NeuralNetwork import *  
nn = NeuralNetwork(x_train,y_train,0.02,[100,25,1],0)  
nn.gradient_descent(5000)#gradient descent algorithm
```

```
Cost after iteration 0: 0.262407  
Cost after iteration 100: 0.169539  
Cost after iteration 200: 0.139401  
Cost after iteration 300: 0.127846  
Cost after iteration 400: 0.122221  
Cost after iteration 500: 0.118694  
Cost after iteration 600: 0.115929  
Cost after iteration 700: 0.113386  
Cost after iteration 800: 0.110816  
Cost after iteration 900: 0.108078  
Cost after iteration 1000: 0.105068  
Cost after iteration 1100: 0.101672  
Cost after iteration 1200: 0.097739  
Cost after iteration 1300: 0.093059  
Cost after iteration 1400: 0.087389  
Cost after iteration 1500: 0.080590  
Cost after iteration 1600: 0.072888  
Cost after iteration 1700: 0.065033  
Cost after iteration 1800: 0.057936  
Cost after iteration 1900: 0.052086  
Cost after iteration 2000: 0.047489  
Cost after iteration 2100: 0.043925  
Cost after iteration 2200: 0.041146  
Cost after iteration 2300: 0.038945  
Cost after iteration 2400: 0.037171  
Cost after iteration 2500: 0.035715  
Cost after iteration 2600: 0.034501  
Cost after iteration 2700: 0.033477  
Cost after iteration 2800: 0.032602  
Cost after iteration 2900: 0.031849  
Cost after iteration 3000: 0.031194  
Cost after iteration 3100: 0.030621  
Cost after iteration 3200: 0.030117  
Cost after iteration 3300: 0.029671  
Cost after iteration 3400: 0.029275  
Cost after iteration 3500: 0.028922  
Cost after iteration 3600: 0.028607  
Cost after iteration 3700: 0.028324  
Cost after iteration 3800: 0.028071  
Cost after iteration 3900: 0.027844  
Cost after iteration 4000: 0.027639  
Cost after iteration 4100: 0.027454  
Cost after iteration 4200: 0.027287
```

```

Cost after iteration 4300: 0.027136
Cost after iteration 4400: 0.027000
Cost after iteration 4500: 0.026876
Cost after iteration 4600: 0.026763
Cost after iteration 4700: 0.026661
Cost after iteration 4800: 0.026567
Cost after iteration 4900: 0.026482

```



Método para plotear la confusion matrix

```

[128]: def plotCf(a,b,t):
        cf = confusion_matrix(a,b)
        plt.imshow(cf,cmap=plt.cm.Blues,interpolation='nearest')
        plt.colorbar()
        plt.title(t)
        plt.xlabel('0          Predicted          1')
        plt.ylabel('1          Actual            0')
        tick_marks = np.arange(len(set(a))) # length of classes
        class_labels = ['0','1']
        plt.xticks(np.ndarray([0,1]))
        plt.yticks(np.ndarray([0,1]))
        for i,j in itertools.product(range(cf.shape[0]),range(cf.shape[1])):

```

```

plt.
→text(j,i,format(cf[i,j],'d'),horizontalalignment='center',color='white' if
→cf[i,j] > (cf.max()*0.7) else 'black')
plt.show();

```

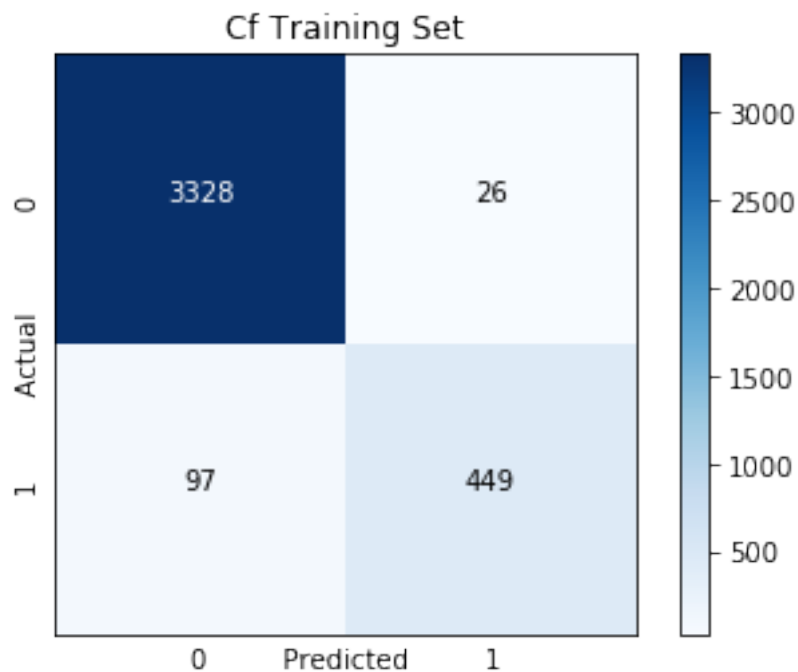
Rendimiento y resultado en el set de entrenamiento

```

[129]: nn.threshold=0.5
nn.X,nn.Y=x_train, y_train
target= nn.Y
predicted=nn.predict(x_train,y_train)
plotCf(target,predicted[0],'Cf Training Set')

```

Acc: 0.968461538461538



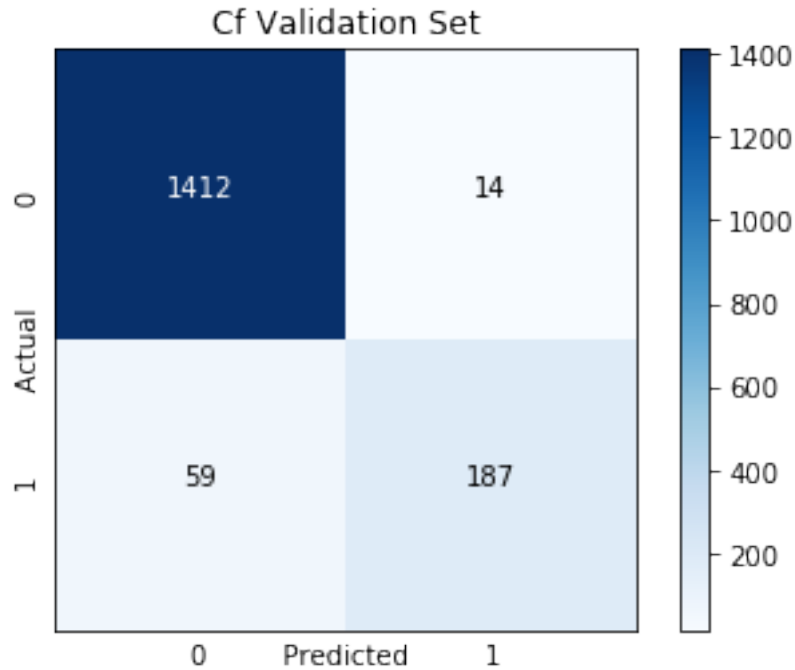
Rendimiento y resultado en el set de prueba.

```

[130]: nn.X,nn.Y=x_test, y_test
target= nn.Y
predicted=nn.predict(x_test,y_test)
plotCf(target,predicted[0],'Cf Validation Set')

```

Acc: 0.95633971291866

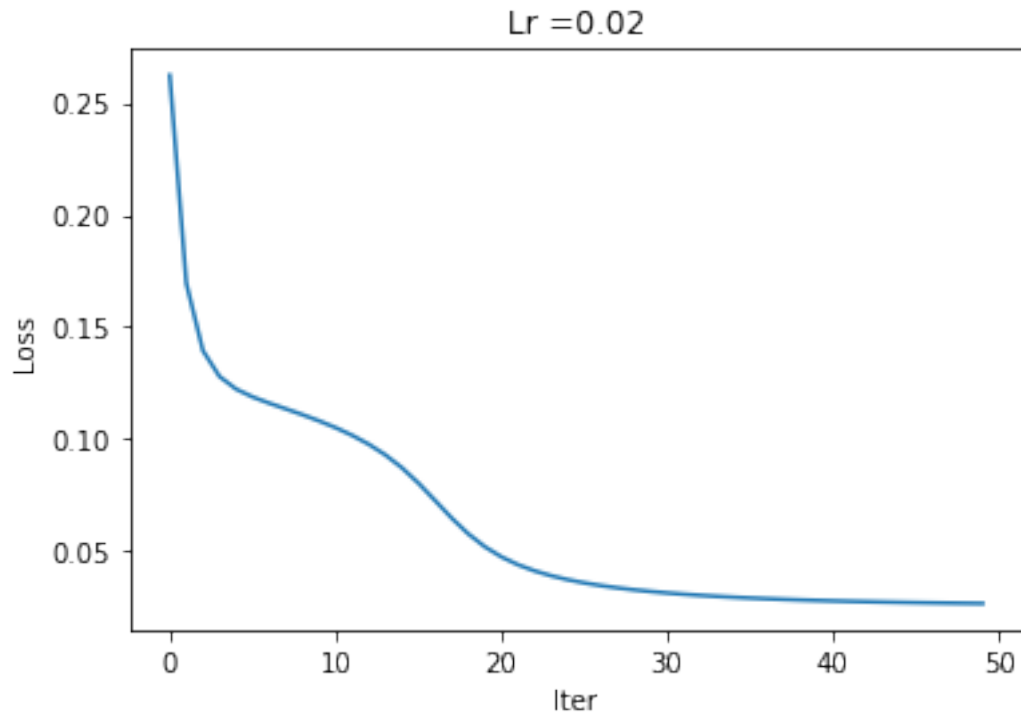


## 1.1 Regularización

```
[131]: from NeuralNetwork import *
nn_regu = NeuralNetwork(x_train,y_train,0.02,[100,25,1],0.95)
nn_regu.gradient_descent_regu(5000)#gradient descent algorithm
```

```
Cost after iteration 0: 0.262407
Cost after iteration 100: 0.169529
Cost after iteration 200: 0.139380
Cost after iteration 300: 0.127822
Cost after iteration 400: 0.122196
Cost after iteration 500: 0.118665
Cost after iteration 600: 0.115892
Cost after iteration 700: 0.113338
Cost after iteration 800: 0.110752
Cost after iteration 900: 0.107991
Cost after iteration 1000: 0.104951
Cost after iteration 1100: 0.101516
Cost after iteration 1200: 0.097530
Cost after iteration 1300: 0.092781
Cost after iteration 1400: 0.087026
Cost after iteration 1500: 0.080140
Cost after iteration 1600: 0.072383
Cost after iteration 1700: 0.064539
Cost after iteration 1800: 0.057505
```

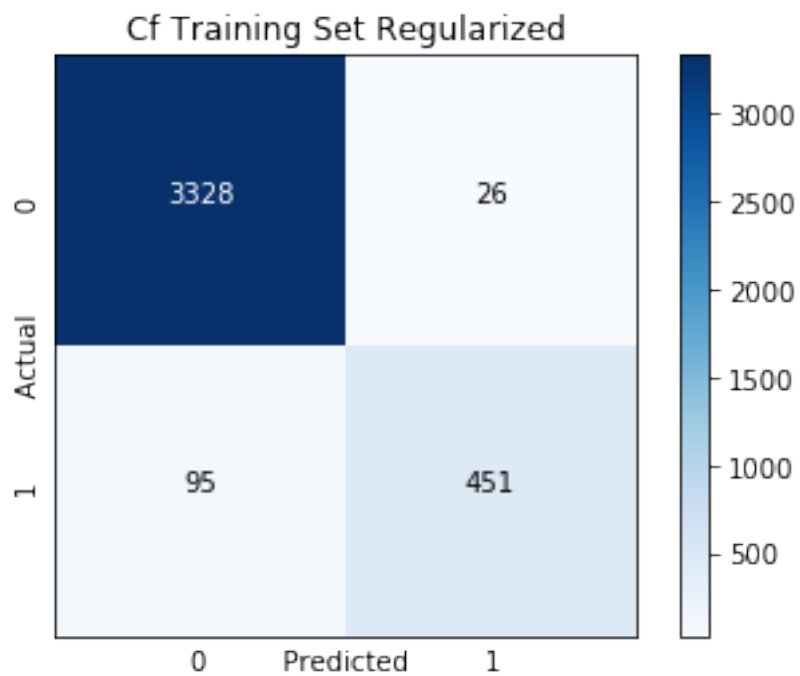
Cost after iteration 1900: 0.051736  
Cost after iteration 2000: 0.047210  
Cost after iteration 2100: 0.043702  
Cost after iteration 2200: 0.040964  
Cost after iteration 2300: 0.038793  
Cost after iteration 2400: 0.037039  
Cost after iteration 2500: 0.035598  
Cost after iteration 2600: 0.034396  
Cost after iteration 2700: 0.033380  
Cost after iteration 2800: 0.032512  
Cost after iteration 2900: 0.031763  
Cost after iteration 3000: 0.031111  
Cost after iteration 3100: 0.030541  
Cost after iteration 3200: 0.030039  
Cost after iteration 3300: 0.029594  
Cost after iteration 3400: 0.029200  
Cost after iteration 3500: 0.028848  
Cost after iteration 3600: 0.028534  
Cost after iteration 3700: 0.028252  
Cost after iteration 3800: 0.028000  
Cost after iteration 3900: 0.027773  
Cost after iteration 4000: 0.027569  
Cost after iteration 4100: 0.027385  
Cost after iteration 4200: 0.027219  
Cost after iteration 4300: 0.027069  
Cost after iteration 4400: 0.026934  
Cost after iteration 4500: 0.026811  
Cost after iteration 4600: 0.026699  
Cost after iteration 4700: 0.026597  
Cost after iteration 4800: 0.026505  
Cost after iteration 4900: 0.026420



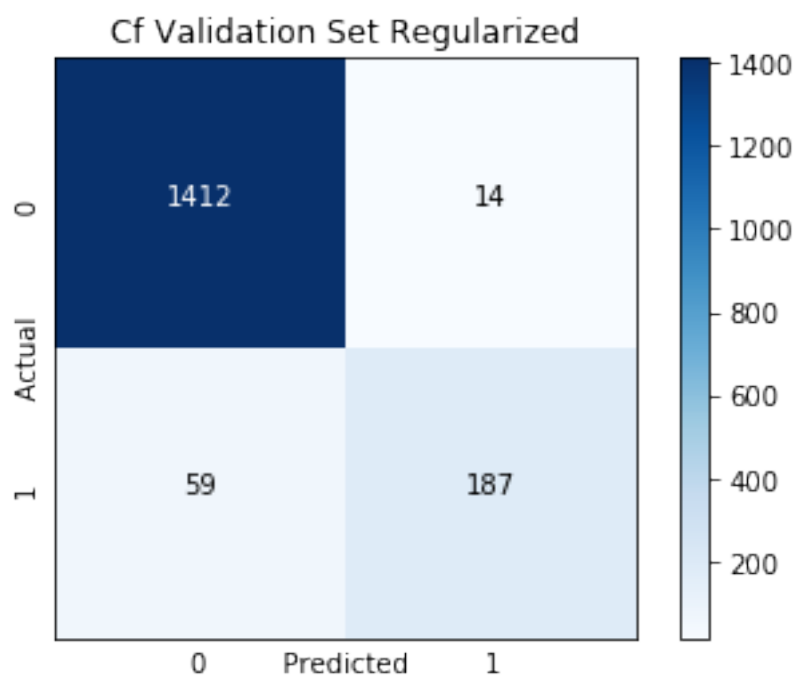
```
[132]: nn_regu.threshold=0.5
nn_regu.X,nn_regu.Y=x_train, y_train
target= nn_regu.Y
predicted=nn_regu.predict(x_train,y_train)
plotCf(target,predicted[0],'Cf Training Set Regularized')
nn_regu.X,nn_regu.Y=x_test, y_test
target= nn_regu.Y
predicted=nn_regu.predict(x_test,y_test)
plotCf(target,predicted[0],'Cf Validation Set Regularized')
```

Acc: 0.9689743589743586





Acc: 0.95633971291866



```
[133]: #frase = 'hi, buy this free thing today! text ML to 81234'
#frase = "Free entry in 2 a wkly comp to win FA Cup final tkts 21st May 2005.
↳Text FA to 87121 to receive entry question(std txt rate)T&C's apply
↳08452810075over18's"
def test(frase):
    split=[]
    split.append(re.sub("[^\w]", " ", frase).lower().split())
    row=np.zeros((1,len(df_columns)),dtype=int)
    for i in range(0,len(split[0])):
        if split[0][i] in df_columns:
            row[0][df_columns.index(split[0][i])]=1
    row[0][100]=0
    dataframe = pd.DataFrame(row,columns=df_columns)
    Y = (dataframe.y).to_numpy()
    dataframe.drop(['y'], axis=1, inplace=True)
    X = dataframe.to_numpy().T
    nn.test(X,Y)
```

```
[134]: #f = input("Introduzca frase: ")
#test(f)
```

## 1.2 Logistic Regression

```
[135]: from sklearn.linear_model import LogisticRegression
```

```
[136]: logistic_regression= LogisticRegression()
logistic_regression.fit(x_train.T,y_train)
```

```
[136]: LogisticRegression(C=1.0, class_weight=None, dual=False, fit_intercept=True,
intercept_scaling=1, l1_ratio=None, max_iter=100,
multi_class='auto', n_jobs=None, penalty='l2',
random_state=None, solver='lbfgs', tol=0.0001, verbose=0,
warm_start=False)
```

```
[137]: def plotCf(a,b,t):
    cf =confusion_matrix(a,b)
    plt.imshow(cf,cmap=plt.cm.Blues,interpolation='nearest')
    plt.colorbar()
    plt.title(t)
    plt.xlabel('0          Predicted          1')
    plt.ylabel('1          Actual          0')
    tick_marks = np.arange(len(set(a))) # length of classes
    class_labels = ['0','1']
    plt.xticks(np.ndarray([0,1]))
    plt.yticks(np.ndarray([0,1]))
    print('Acc:',(cf[0,0]+cf[1,1])/a.shape[0])
    for i,j in itertools.product(range(cf.shape[0]),range(cf.shape[1])):
```

```

plt.
→text(j,i,format(cf[i,j],'d'),horizontalalignment='center',color='white' if
→cf[i,j] > (cf.max()*0.7) else 'black')
plt.show();

```

```

[138]: threshold = 0.5
y_pred = np.where(logistic_regression.predict_proba(x_train.T)[: ,1] >
→threshold, 1, 0)

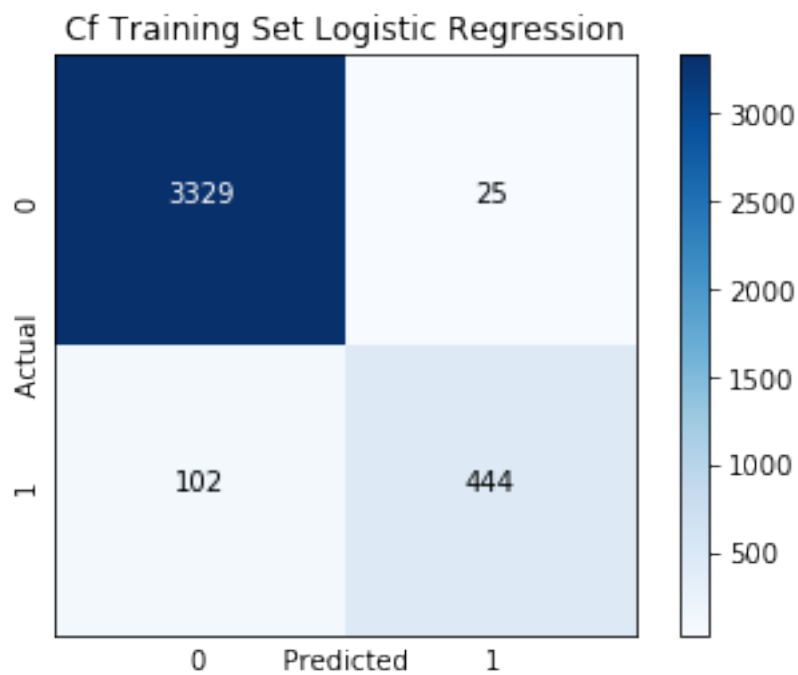
```

```

[139]: plotCf(y_train,y_pred,'Cf Training Set Logistic Regression')

```

Acc: 0.9674358974358974



```

[140]: y_pred = np.where(logistic_regression.predict_proba(x_test.T)[: ,1] > threshold,
→1, 0)

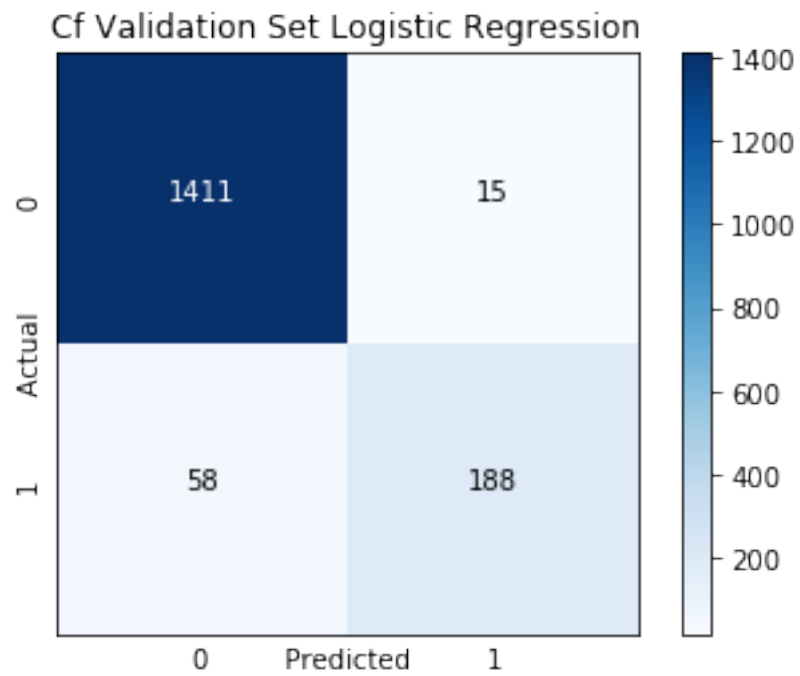
```

```

[141]: plotCf(target,y_pred,'Cf Validation Set Logistic Regression')

```

Acc: 0.9563397129186603



[ ]: