

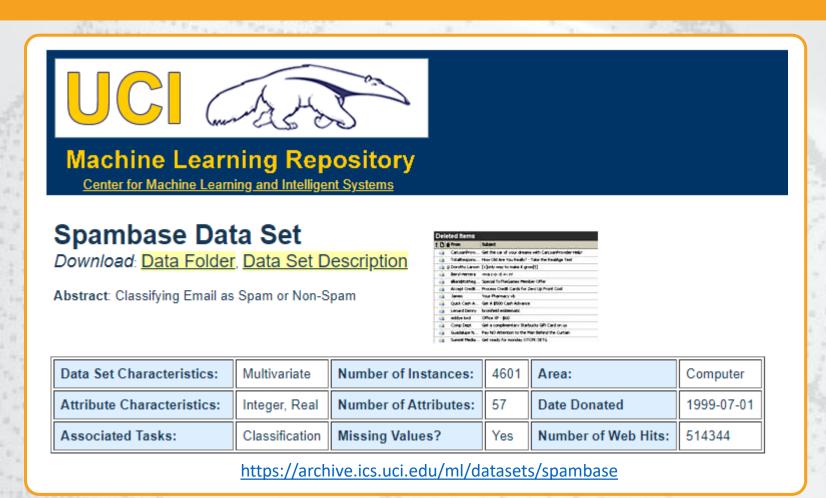
# Caso Email Spam





## Caso Email Spam

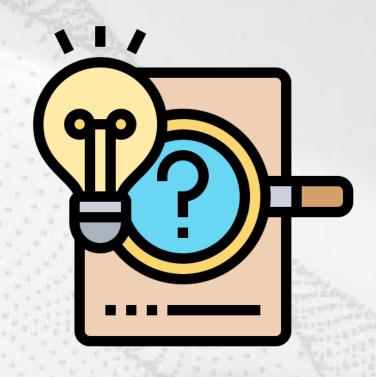
El objetivo es entrenar un algoritmo de Clasificación KNN para detectar un correo spam.
 Para eso, utilizaremos el set de datos de spam.



### Caso UN Comtrade

Los 58 valores corresponden a los siguientes campos:

```
word freq telnet:
                                                                      continuous.
word freq make:
                       continuous.
                                            word freq 857:
                                                                      continuous.
word freq address:
                        continuous.
                                            word freq data:
word freq all:
                                                                      continuous.
                        continuous.
word freq 3d:
                                            word freq 415:
                       continuous.
                                                                      continuous.
word freq our:
                       continuous.
                                            word freq 85:
                                                                      continuous.
word freq over:
                       continuous.
                                            word freq technology:
                                                                      continuous.
word freq remove:
                        continuous.
                                            word freq 1999:
                                                                      continuous.
word freq internet:
                       continuous.
                                            word freq parts:
                                                                      continuous.
word freq order:
                        continuous.
                                            word freq pm:
                                                                      continuous.
word freq mail:
                        continuous.
                                            word freq direct:
                                                                      continuous.
word freq receive:
                       continuous.
                                            word freq cs:
                                                                      continuous.
word freq will:
                       continuous.
                                            word freq meeting:
                                                                      continuous.
word freq people:
                       continuous.
                                            word freq original:
                                                                      continuous.
word freq report:
                        continuous.
                                            word freq project:
                                                                      continuous.
word freq addresses:
                       continuous.
                                            word freq re:
                                                                      continuous.
word freq free:
                        continuous.
word freq business:
                                            word freq edu:
                       continuous.
                                                                      continuous.
word freq email:
                        continuous.
                                            word freq table:
                                                                      continuous.
word freq you:
                        continuous.
                                            word freq conference:
                                                                      continuous.
word freq credit:
                       continuous.
                                            char freq ;:
                                                                      continuous.
word freq your:
                        continuous.
                                            char freq (:
                                                                      continuous.
word freq font:
                       continuous.
                                            char freq [:
                                                                      continuous.
word freq 000:
                       continuous.
                                            char freq !:
                                                                      continuous.
word freq money:
                       continuous.
                                            char freq $:
                                                                      continuous.
word freq hp:
                       continuous.
                                            char freq #:
                                                                      continuous.
word freq hpl:
                        continuous.
                                            capital run length average: continuous.
word freq george:
                       continuous.
                                            capital run length longest: continuous.
word freq 650:
                       continuous.
                                            capital run length total:
                                                                         continuous.
word freq lab:
                       continuous.
word freq labs:
                        continuous.
                                            spam:
                                                                      0 or 1.
```





## Caso Email Spam

Construya un notebook jupyter ordenado, documentado y reproducible, en donde entrene un modelo predictivo de clasificación utilizando el algoritmo KNN.

#### Se pide:

- Accuracy del algoritmo
- Matriz de Confusión
- Valor de K seleccionado
- Suba este notebook en su carpeta de trabajos





¡Gracias!