**Assignment #2: Deliver on Monday - Tuesday** 

Given the following ham/spam dataset, you are required to design a naïve Bayes classifier model that classify efficiently any upcoming email into either ham /spam.

You are required to use the appropriate naïve Bayes classifier. Moreover, you need to use:

- $1 \chi^2$  test (Chi-squared) to check the probability of each word with each class category
- 2- TFIDF to check the probability of each word with each class category
- 3- Use laplacian smoothing in (1 & 2)

Which one is better, why?