

Iris plant dataset		
Primera prueba		
	Navive Bayes	KNN
Hold Out 30/70	0.9778	0.9778
10-Fold Cross-Validation	0.9533	0.9676
Leave-One-Out	0.9533	0.9676
Segunda prueba		
Hold Out 30/70	0.9333	0.9111
10-Fold Cross-Validation	0.9533	0.9733
Leave-One-Out	0.9533	0.9667

Wine dataset		
Primera prueba		
	Navive Bayes	KNN
Hold Out 30/70	1.0000	0.9778
10-Fold Cross-Validation	0.9533	0.9667
Leave-One-Out	0.9533	0.9667
Segunda prueba		
Hold Out 30/70	0.9111	0.9556
10-Fold Cross-Validation	0.9533	0.9667
Leave-One-Out	0.9533	0.9667

breast cancer dataset		
Primera prueba		
	Navive Bayes	KNN
Hold Out 30/70	0.9556	0.8889
10-Fold Cross-Validation	0.9600	0.9667
Leave-One-Out	0.9533	0.9667
Segunda prueba		
Hold Out 30/70	0.9556	0.9556
10-Fold Cross-Validation	0.9533	0.9667
Leave-One-Out	0.9533	0.9667

## Primera prueba

```
C:\Users\JuanC\Documents\practica_in>C:\Users\JuanC\AppData\Local\Microsoft\WindowsApps/KNN_Bayes.py

----- iris dataset-----

--- Naive Bayes ---
Hold-Out Accuracy: 0.9778
Hold-Out Confusion Matrix:
[[13  0  0]
 [ 0 13  1]
 [ 0  0 18]]
10-Fold Cross-Validation Accuracy: 0.9533
Leave-One-Out Accuracy: 0.9533

--- KNN ---
Hold-Out Accuracy: 0.9778
Hold-Out Confusion Matrix:
[[17  0  0]
 [ 0 15  0]
 [ 0  1 12]]
10-Fold Cross-Validation Accuracy: 0.9667
Leave-One-Out Accuracy: 0.9667

----- wine dataset-----

--- Naive Bayes ---
Hold-Out Accuracy: 1.0000
Hold-Out Confusion Matrix:
[[15  0  0]
 [ 0 14  0]
 [ 0  0 16]]
10-Fold Cross-Validation Accuracy: 0.9533
Leave-One-Out Accuracy: 0.9533

--- KNN ---
Hold-Out Accuracy: 0.9778
Hold-Out Confusion Matrix:
[[13  0  0]
 [ 0 11  1]
 [ 0  0 20]]
10-Fold Cross-Validation Accuracy: 0.9667
Leave-One-Out Accuracy: 0.9667

----- breast cancer dataset-----

--- Naive Bayes ---
Hold-Out Accuracy: 0.9556
Hold-Out Confusion Matrix:
[[15  0  0]
 [ 0 13  0]
 [ 0  2 15]]
10-Fold Cross-Validation Accuracy: 0.9600
Leave-One-Out Accuracy: 0.9533

--- KNN ---
Hold-Out Accuracy: 0.8889
Hold-Out Confusion Matrix:
[[17  0  0]
 [ 0 14  4]
 [ 0  1  9]]
10-Fold Cross-Validation Accuracy: 0.9667
Leave-One-Out Accuracy: 0.9667
```

## Segunda prueba

```
C:\Users\juano\Documents\practica_IR>C:\Users\juano\AppData\Local\Microsoft\KNN_Bayes.py

----- iris dataset-----

--- Naive Bayes ---
Hold-Out Accuracy: 0.9333
Hold-Out Confusion Matrix:
[[12  0  0]
 [ 0 14  1]
 [ 0  2 16]]
10-Fold Cross-Validation Accuracy: 0.9533
Leave-One-Out Accuracy: 0.9533

--- KNN ---
Hold-Out Accuracy: 0.9111
Hold-Out Confusion Matrix:
[[14  0  0]
 [ 0 17  2]
 [ 0  2 10]]
10-Fold Cross-Validation Accuracy: 0.9733
Leave-One-Out Accuracy: 0.9667

----- wine dataset-----

--- Naive Bayes ---
Hold-Out Accuracy: 0.9111
Hold-Out Confusion Matrix:
[[16  0  0]
 [ 0 10  4]
 [ 0  0 15]]
10-Fold Cross-Validation Accuracy: 0.9533
Leave-One-Out Accuracy: 0.9533

--- KNN ---
Hold-Out Accuracy: 0.9556
Hold-Out Confusion Matrix:
[[20  0  0]
 [ 0 11  1]
 [ 0  1 12]]
10-Fold Cross-Validation Accuracy: 0.9667
Leave-One-Out Accuracy: 0.9667

----- breast cancer dataset-----

--- Naive Bayes ---
Hold-Out Accuracy: 0.9556
Hold-Out Confusion Matrix:
[[13  0  0]
 [ 0 16  0]
 [ 0  2 14]]
10-Fold Cross-Validation Accuracy: 0.9533
Leave-One-Out Accuracy: 0.9533

--- KNN ---
Hold-Out Accuracy: 0.9556
Hold-Out Confusion Matrix:
[[18  0  0]
 [ 0 12  2]
 [ 0  0 13]]
10-Fold Cross-Validation Accuracy: 0.9667
Leave-One-Out Accuracy: 0.9667
```