

## Ejercicio 1

Los parametros utilizados para los modelos base fueron los parametros por defecto, que son:

Parameters

Naive Bayes

☒ *laplace correction*

Parameters

k-NN

k

5

☒ weighted vote

measure types

MixedMeasures

mixed measure

MixedEuclideanDistance

Parameters

Decision Tree

criterion

gain\_ratio

maximal depth

10

☒ apply pruning

confidence

0.1

☒ apply prepruning

minimal gain

0.01

minimal leaf size

2

*minimal size for split*

4

*number of prepruning alternatives*

3

## Performance de los modelos:

### Vote:

accuracy: 95.56%

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
Iris-setosa:	16	0	0
Iris-versicolor:	0	16	1
Iris-virginica:	0	1	11

kappa: 0.933

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
Iris-setosa:	16	0	0
Iris-versicolor:	0	16	1
Iris-virginica:	0	1	11

### Decision Tree individual:

accuracy: 93.33%

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
Iris-setosa:	16	0	0
Iris-versicolor:	0	16	2
Iris-virginica:	0	1	10

kappa: 0.899

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
Iris-setosa:	16	0	0
Iris-versicolor:	0	16	2
Iris-virginica:	0	1	10

### K-NN individual:

accuracy: 97.78%

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
Iris-setosa:	16	0	0
Iris-versicolor:	0	16	0
Iris-virginica:	0	1	12

kappa: 0.966

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
Iris-setosa:	16	0	0
Iris-versicolor:	0	16	0
Iris-virginica:	0	1	12

### Naive Bayes individual:

PerformanceVector:

accuracy: 97.78%

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
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Iris-setosa:	16	0	0
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Iris-versicolor:	0	17	1
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Iris-virginica:	0	0	11
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kappa: 0.966

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
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Iris-setosa:	16	0	0
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Iris-versicolor:	0	17	1
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Iris-virginica:	0	0	11
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## Ejercicio 2

Performance del modelo Bagging:

accuracy: 95.56%

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
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Iris-setosa:	16	0	0
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Iris-versicolor:	0	16	1
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Iris-virginica:	0	1	11
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kappa: 0.933

ConfusionMatrix:

True:	Iris-setosa	Iris-versicolor	Iris-virginica
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Iris-setosa:	16	0	0
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Iris-versicolor:	0	16	1
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Iris-virginica:	0	1	11
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La precisión es la misma que la del modelo "Vote" del ejercicio anterior.