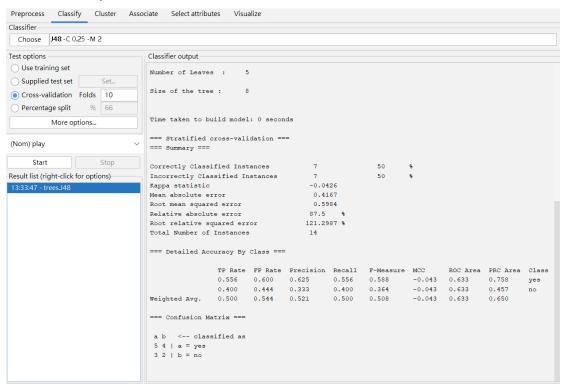
1.

操作流程:

先打開檔案



接著進 classify 選 J48 並在 cross-validation 輸入 10 再按 start



(1)

a b <-- classified as
5 4 | a = yes
3 2 | b = no

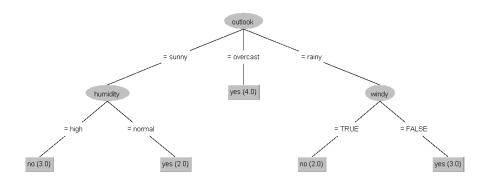
(2)

Sensitivity =
$$\frac{5}{5+4}$$
 = 0.55

(3)

Specificity =
$$\frac{2}{3+2}$$
 = 0.4

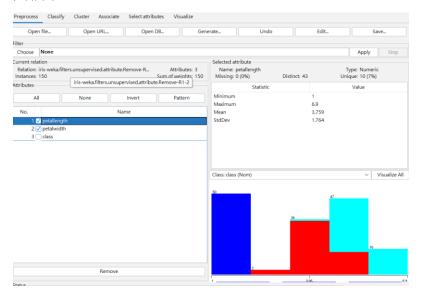
(4)



2.

操作流程

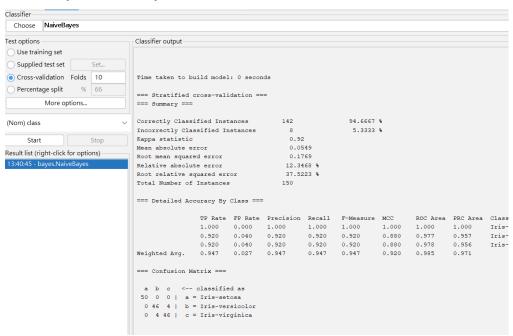
開檔案



接著把前 2 個 attribute 做 discretize (bin = 5)

Choose	Discretize -B 5 -M -1.0 -R first-last -precision 6	attributes in the dataset into nominal attributes. Capabilities	
Current relation Relation: iris-weka.filters.unsupervised.attribute.Remove-R		attributeIndices	first-last
Instances: 150 Attributes		binRangePrecision	6
All	None Invert	bins	5

進 classify 選 NaiveBayes, cv 輸入 10, 接著按 start



(1)

(2)

Sensitivity:

Setosa =
$$\frac{50}{50+0+0}$$
 = 1

versicoclor =
$$\frac{46}{0+46+4} = 0.92$$

virginica =
$$\frac{46}{0+4+46} = 0.92$$

(3)

Specificity:

$$Setosa = \frac{46+46}{50+50} = 0.92$$

versicoclor =
$$\frac{50+46}{50+50}$$
 = 0.96

virginica =
$$\frac{50+46}{50+50}$$
 = 0.96

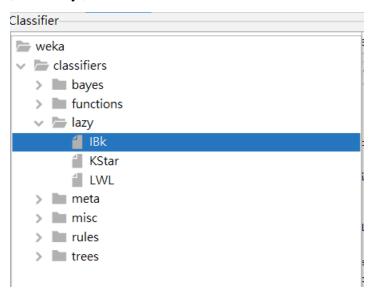
3.

操作過程

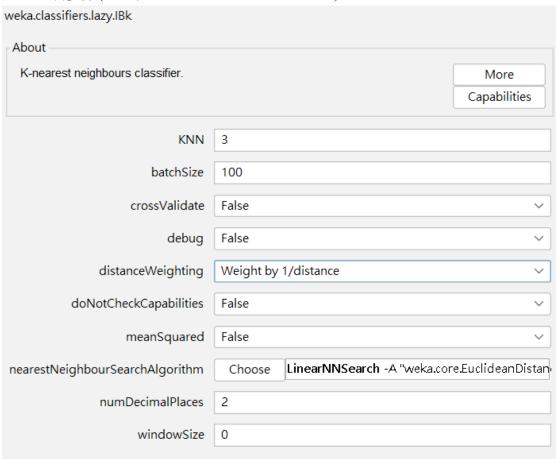
開檔案



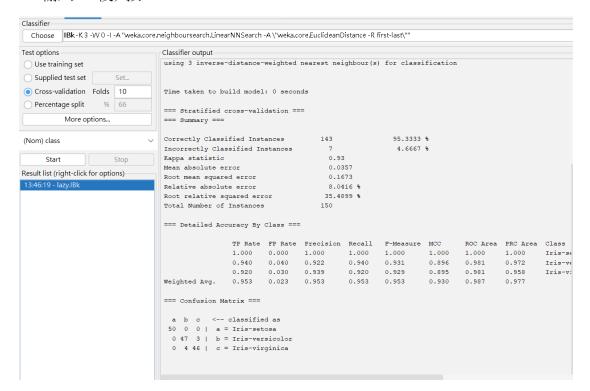
進 classify 選 IBk



進 IBk 調參數(k = 3, distance = Euclidean distance)



Cv 輸入 10 後, 按 start



(1)

a b c <-- classified as

50 0 0 | a = Iris-setosa

0 45 5 | b = Iris-versicolor

0 4 46 | c = Iris-virginica

(2)

Sensitivity:

Setosa =
$$\frac{50}{50+0+0}$$
 = 1

versicoclor =
$$\frac{45}{0+45+5} = 0.90$$

virginica =
$$\frac{46}{0+4+46} = 0.92$$

(3)

Specificity:

$$Setosa = \frac{45+46}{50+50} = 0.91$$

versicoclor =
$$\frac{50+46}{50+50}$$
 = 0.96

virginica =
$$\frac{50+45}{50+50}$$
 = 0.95