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iris.arff

```
1 % 1. Title: Iris Plants Database
2 %
3 % 2. Sources:
4 %     (a) Creator: R.A. Fisher
5 %     (b) Donor: Michael Marshall (MARSHALL%PLU@io.arc.nasa.gov)
6 %     (c) Date: July, 1988
7 %
8 % 3. Past Usage:
9 %     - Publications: too many to mention!!! Here are a few.
10 % 1. Fisher,R.A. "The use of multiple measurements in taxonomic problems"
11 %   Annual Eugenics, 7, Part II, 179-188 (1936); also in "Contributions
12 %   to Mathematical Statistics" (John Wiley, NY, 1950).
13 % 2. Duda,R.O., & Hart,P.E. (1973) Pattern Classification and Scene Analysis.
14 %   (Q327.D83) John Wiley & Sons. ISBN 0-471-22361-1. See page 218.
15 % 3. Dasarathy, B.V. (1980) "Nosing Around the Neighborhood: A New System
16 %   Structure and Classification Rule for Recognition in Partially Exposed
17 %   Environments". IEEE Transactions on Pattern Analysis and Machine
18 %   Intelligence, Vol. PAMI-2, No. 1, 67-71.
19 %   -- Results:
20 %       -- very low misclassification rates (0% for the setosa class)
21 % 4. Gates, G.W. (1972) "The Reduced Nearest Neighbor Rule". IEEE
22 %   Transactions on Information Theory, May 1972, 431-433.
23 %   -- Results:
24 %       -- very low misclassification rates again
25 % 5. See also: 1988 MLC Proceedings, 54-64. Cheeseman et al's AUTOCLASS II
26 %   conceptual clustering system finds 3 classes in the data.
27 %
28 % 4. Relevant Information:
29 %   --- This is perhaps the best known database to be found in the pattern
30 %   recognition literature. Fisher's paper is a classic in the field
31 %   and is referenced frequently to this day. (See Duda & Hart, for
32 %   example.) The data set contains 3 classes of 50 instances each,
33 %   where each class refers to a type of iris plant. One class is
34 %   linearly separable from the other 2; the latter are NOT linearly
35 %   separable from each other.
36 %   --- Predicted attribute: class of iris plant.
37 %   --- This is an exceedingly simple domain.
38 %
39 % 5. Number of Instances: 150 (50 in each of three classes)
40 %
41 % 6. Number of Attributes: 4 numeric, predictive attributes and the class
42 %
43 % 7. Attribute Information:
44 % 1. sepal length in cm
45 % 2. sepal width in cm
46 % 3. petal length in cm
47 % 4. petal width in cm
48 % 5. class:
49 %     -- Iris Setosa
50 %     -- Iris Versicolour
51 %     -- Iris Virginica
52 %
53 % 8. Missing Attribute Values: None
54 %
55 % Summary Statistics:
56 %           Min    Max    Mean    SD    Class Correlation
```

```
57 %   sepal length: 4.3  7.9   5.84  0.83   0.7826
58 %   sepal width: 2.0  4.4   3.05  0.43  -0.4194
59 %   petal length: 1.0  6.9   3.76  1.76   0.9490  (high!)
60 %   petal width: 0.1  2.5   1.20  0.76   0.9565  (high!)
61 %
62 % 9. Class Distribution: 33.3% for each of 3 classes.
63
64 @RELATION iris
65
66 @ATTRIBUTE sepallength  REAL
67 @ATTRIBUTE sepalwidth   REAL
68 @ATTRIBUTE petallength  REAL
69 @ATTRIBUTE petalwidth   REAL
70 @ATTRIBUTE class        {Iris-setosa,Iris-versicolor,Iris-virginica}
71
72 @DATA
73 5.1,3.5,1.4,0.2,Iris-setosa
74 4.9,3.0,1.4,0.2,Iris-setosa
75 4.7,3.2,1.3,0.2,Iris-setosa
76 4.6,3.1,1.5,0.2,Iris-setosa
77 5.0,3.6,1.4,0.2,Iris-setosa
78 5.4,3.9,1.7,0.4,Iris-setosa
79 4.6,3.4,1.4,0.3,Iris-setosa
80 5.0,3.4,1.5,0.2,Iris-setosa
81 4.4,2.9,1.4,0.2,Iris-setosa
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123 7.0,3.2,4.7,1.4,Iris-versicolor
124 6.4,3.2,4.5,1.5,Iris-versicolor
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221 6.2,3.4,5.4,2.3,Iris-virginica
222 5.9,3.0,5.1,1.8,Iris-virginica
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