In [2]:
```
# load the iris dataset
from sklearn.datasets import load_iris
iris = load_iris()
```

In [3]:
```
iris
```

Out[3]:
```
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 'DESCR': '.. _iris_dataset:\n\nIris plants dataset\n--------------------\n\n**Data Set Characteristics:**\n\n    :Number of Instances: 150 (50 in each of three classes)\n    :Number
of Attributes: 4 numeric, predictive attributes and the class\n    :Attribute Information:\n        - sepal length in cm\n        - sepal width in cm\n        - petal length in
cm\n        - petal width in cm\n        - class:\n                - Iris-Setosa\n                - Iris-Versicolour\n                - Iris-Virginica\n\n    :Summary Statistics:\n\n
============== ==== ==== ======= ===== ====================\n                Min  Max   Mean    SD   Class Correlation\n    ==============
==== ==== ======= ===== ====================\n    sepal length:   4.3  7.9   5.84  0.83    0.7826\n    sepal width:    2.0  4.4   3.05  0.43   -0.4194\n    petal length:   1.0  6.9   3.76  1.7
0.9490  (high!)\n    petal width:    0.1  2.5   1.20  0.76    0.9565  (high!)\n    ==============
==== ==== ======= ===== ====================\n\n    :Missing Attribute Values: None\n    :Class Distribution: 33.3% for each of 3 classes.\n    :Creator: R.A. Fisher\n    :Donor:
Michael Marshall (MARSHALL%PLU@io.arc.nasa.gov)\n    :Date: July, 1988\n\nThe famous Iris database, first used by Sir R.A. Fisher. The dataset is taken\nfrom Fisher\'s paper. Note that it\'s the same as in R, but not as in the UCI\nMachine Learning Repository,
which has two wrong data points.\n\nThis is perhaps the best known database\n
in\n
the\n
pattern\n
recognition\n
literature. Fisher\n
paper\n
is\n
a\n
classic\n
in\n
the\n
field\n
and\n
is\n
referenced\n
frequently\n
to\n
this\n
day. (See Duda & Hart, for\n
example.)\n
Therefore\n
set\n
contains\n
3\n
classes\n
of\n
50\n
instances\n
each,\n
where\n
each\n
class\n
refers\n
to\n
a\n
type\n
of\n
iris\n
plant.\n
One\n
class\n
is\n
linearly\n
separable\n
from\n
the\n
other\n
2;\n
the\n
latter\n
are\n
NOT\n
linearly\n
separable\n
from\n
each\n
other.\n\n.
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topic:\n
Reference\n\n
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Fisher, R.A.\n
"The\n
use\n
of\n
multiple\n
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in\n
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Annual\n
Eugenics,\n
7,\n
Part\n
II,\n
179-188\n
(1936);\n
also\n
in\n
"Contributions\n
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(John\n
Wiley\n
&\n
Sons,\n
1950).\n
.
.\n
Dasarathy,\n
B.V.\n
(1980)\n
"Nosing\n
Around\n
the\n
Nearest\n
Neighborhood:\n
A\n
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Partially\n
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To\n
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(purdbms@stat.tamu.edu)\n
Jan\n
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Will\n
you\n
please\n
add\n
the\n
following\n
to\n
the\n
iris\n
data\n
\n
\n
Date:\n
Jan\n
92\n
\n
\n
From:\n
Gallagher\n
(purdbms@stat.tamu.edu)\n
\n
\n
This\n
is\n
a\n
well-known\n
data\n
set\n
\n
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Sometimes\n
called\n
Anderson\n
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Sometimes\n
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Fisher\n
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Sometimes\n
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Fisher\n
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Anderson\n
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