sl-support-vector-mechanism-1

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#Project Title: Using the support vector mechanism algorithm of supervised mechine learning, predict iris.csv dataset to findout the species will be same or different.

#Problem Statement: A American based Botanical garden grow iris flower in their labs but using bio technology in a single Tree different types of vareity flower is grow. Find out as a Data Science Enginner how much accuracy is there all category contain same species

#task 1: Preprocess the data in scikit.learn libery #Task 2: Load the data using sklearn model selection default argument #Task 3: On the basis of your dataset train test and split the SVM model #Task 4: Import support vector mechanism classifier. The SVM must be "Linear" #Task 5: Train the classifier on the training data #Task 6: Find out the prediction value on the test data #task 7: Test the model with the help of accuracy, should be lie in the range of 0-1

#Conclusion According to my support vector mechanism model the species are linear. With the accuracy of 1.00.

Hence proved model was successfully implement.

```
[1]: from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split
from sklearn.svm import SVC
from sklearn.metrics import accuracy_score
```

```
[2]: # Load the Iris dataset
iris = load_iris()
X = iris.data
y = iris.target
```

```
[3]: # Consider only two classes for simplicity

X = X[y != 2]

y = y[y != 2]
```