

# arbolesdecision

May 18, 2025

## 1 Ejemplo árbol de Decisión

### 1.1 Bibliotecas

```
[10]: import numpy as np
import matplotlib.pyplot as plt

from sklearn.datasets import load_iris
from sklearn.tree import DecisionTreeClassifier, export_graphviz
from sklearn.inspection import DecisionBoundaryDisplay
```

### 1.2 1.Carga de datos

```
[ ]: from sklearn.datasets import load_iris

iris = load_iris()
display(iris)
```

### 1.3 Generación del Modelo

```
[13]: X= iris.data
Y= iris.target
tree = DecisionTreeClassifier(min_samples_leaf=30,random_state=10)
tree.fit(X,Y)
export_graphviz(tree,out_file="iris.dot",class_names=iris.
↪target_names,feature_names=iris.feature_names,filled=True)
```