

# Lecture12

---

Datensatz  $\rightarrow$   $\begin{array}{c|c|c|c|c} \text{Sepal-L} & \text{Sepal-W} & \text{Petal-L} & \text{Petal-W} & \text{Species} \end{array}$

$X, Y$

$X \rightarrow S-L, S-W, P-L, P-W$   $\rightarrow$   $\begin{cases} X_{\text{train}} \rightarrow 80\% \text{ of } X \\ X_{\text{test}} \rightarrow 20\% \text{ of } X \end{cases}$

$Y \rightarrow \text{Species}$   $\rightarrow$   $\begin{cases} Y_{\text{train}} \rightarrow 80\% \text{ of } Y \\ Y_{\text{test}} \rightarrow 20\% \text{ of } Y \end{cases}$

`X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.20)`

$(X_{\text{train}}, Y_{\text{train}}) \rightarrow \underline{\text{train}}$

$X_{\text{test}} \rightarrow \text{prediction}$

$\text{prediction} \rightarrow Y_{\text{test}} \rightarrow \text{accuracy}$