## **Decession Tree Classification** Muhammad Rofi Ariansyah 41155050210066 Dimensi Feature: (150, 4) Class: {0, 1, 2} X\_train, X\_test, y\_train, y\_test - train\_test\_split(X,y, test\_size=0.3, random\_state=0) [3]: # Classification dengan DecisionTreeClassifier from sklearn.tree import DecisionTreeClassifier model = DecisionTreeClassifier(max\_depth=4) model.fit(X\_train,y\_train) [3]: v DecisionTreeClassifier DecisionTreeClassifier(max\_depth=4) [6]: # Visualize Model import matplotlib.pyplot as plt from sklearn import tree plt.rcParams['figure.dpi']= 100 plt.subplots(figsize=(10,10)) tree.plot\_tree(model, fontsize=10) plt.show() gini = 0.0 samples = 34 value = [34, 0, 0] gini = 0.0 samples = 1 value = [0, 1, 0] gini = 0.0 samples = 3 value = [0, 0, 3] y\_pred = model.predict(X\_test) print(classification\_report(y\_test, y\_pred)) precision recall f1-score support 1.00 1.00 0.92 0.98 0.98 0.98

## Random Forest Classification Muhammad Rofi Ariansyah 41155050210066 [2] \*\*Lond Breast\*\* \*\*Iron akkarn.detexts import load\_fris \*\*Iro