





from sklearn.preprocessing import LabelEncoder le = LabelEncoder() $y = le.fit_transform(y)$

Splitting Data into Training & Testing Datasets

In [19]: from sklearn.model_selection import train_test_split

Decision Tree Classifier In [20]: **from sklearn.tree import** DecisionTreeClassifier dtc = DecisionTreeClassifier() dtc.fit(x, y) print('Decision Tree Classifer Created')

x_train, x_test, y_train, y_test = train_test_split(x, y, test_size = 0.

plt.figure(figsize=(20,20)) tree_img= plot_tree(dtc, feature_names=df.columns, class_names=df['Speci es'].unique().tolist(), precision=4,label="all",filled=True) plt.show()

In [21]: from sklearn.tree import plot_tree

Visualizing Decision Trees

Decision Tree Classifer Created

25, random_state =0)

SepalWidthCm <= 2.45 gini = 0.6667 samples = 150 value = [50, 50, 50] class = Iris-setosa

