## Calculating Precision and Recall in Python

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| #Importing the required libraries  from sklearn import datasets  import pandas as pd  from sklearn.linear\_model import LogisticRegression  from sklearn.model\_selection import train\_test\_split  from sklearn.metrics import precision\_recall\_curve  from sklearn.metrics import plot\_precision\_recall\_curve  from sklearn.metrics import precision\_score  from sklearn.metrics import recall\_score  import matplotlib.pyplot as plt    #Loading the data  data = datasets.load\_breast\_cancer()  df = pd.DataFrame(data.data, columns=data.feature\_names)  df['target'] = data.target    #Splitting the data into training and test set  X\_train, X\_test, y\_train, y\_test = train\_test\_split(                                      df.iloc[:,:-1], df.iloc[:,-1], test\_size=0.3, random\_state=42)    # Initialize and fit the Model  model = LogisticRegression()  model.fit(X\_train, y\_train)    #Make prediction on the test set  pred = model.predict(X\_test)    #calculating precision and reall  precision = precision\_score(y\_test, pred)  recall = recall\_score(y\_test, pred)    print('Precision: ',precision)  print('Recall: ',recall)    #Plotting Precision-Recall Curve  disp = plot\_precision\_recall\_curve(model, X\_test, y\_test) | |
| **Precision:  0.963963963963964**  **Recall:  0.9907407407407407** |