

```
[ ] from sklearn.tree import DecisionTreeClassifier
model = DecisionTreeClassifier()
model.fit(X_train, res.Y_train)
```

optimizing spam filtering - Colab

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optimizing spam filtering

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df["label"].value_counts().plot(kind="bar",figsize=(12,6))
plt.xticks(np.arange(2),('ham', 'spam'),rotation=0);

[33] # performing feature scaling operation using standard scaler on x part of the dataset because
there different type of values in the columns
sc=StandardScaler()
x_bal=sc.fit_transform(x_bal)
x_bal = pd.DataFrame(x_bal,columns=names)

[34] #splitting data into train and validation sets using train_test_split

from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test = train_test_split(X,y,test_size = 0.20, random_state = 0)

#train size 80% and test size 20%

[] from sklearn.tree import DecisionTreeClassifier
model = DecisionTreeClassifier()
model.fit(X_train_res,y_train_res)

[] from sklearn.ensemble import RandomForestClassifier
model1 =RandomForestClassifier()
model1.fit(X_train_res,y_train_res)

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