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plt.figure(figsize=(15, 10))
plt.imshow(wordCloud.generate(consolidated), interpolation='bilinear')
plt.axis('off')
plt.show()
cv = TfidfVectorizer(max_features=2500)
X = cv.fit_transform(data['review']).toarray()
X
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, data['label'],
                                                    test_size=0.33,
                                                    stratify=data['label'],
                                                    random_state = 42)

from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy_score

model = DecisionTreeClassifier(random_state=0)
model.fit(X_train,y_train)

#testing the model
pred = model.predict(X_train)
print(accuracy_score(y_train,pred))
from sklearn import metrics
from sklearn.metrics import confusion_matrix
cm = confusion_matrix(y_train,pred)

cm_display = metrics.ConfusionMatrixDisplay(confusion_matrix = cm,
                                              display_labels = [False, True])

cm_display.plot()
plt.show()

```