

Performance Testing Metrics

Date	01 November 2022
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Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board

The confusion matrix below shows the performance metrics of the machine learning model.

```
In [ ]: from sklearn.tree import DecisionTreeClassifier

dtclas=DecisionTreeClassifier()
modeldt=dtclas.fit(X_train,y_train)
predictiondt=modeldt.predict(X_test)
cmdt= confusion_matrix(y_test,predictiondt)
sns.heatmap(cmdt, annot=True,cmap='winter')
print(classification_report(y_test, predictiondt))
```

	precision	recall	f1-score	support
Absence	0.78	0.78	0.78	40
Presence	0.68	0.68	0.68	28
accuracy			0.74	68
macro avg	0.73	0.73	0.73	68
weighted avg	0.74	0.74	0.74	68

