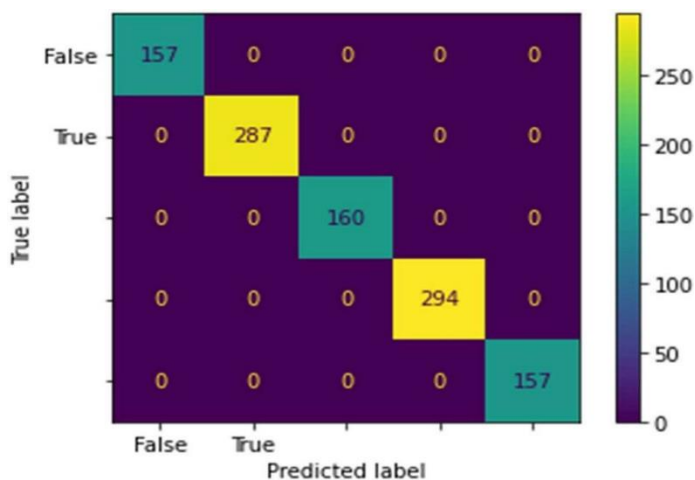


PERFORMANCE METRICS

Date	24 November 2022
team id	PNT2022TMID37024
Project title	AI Powered Nutrition Analyst for Fitness Enthusiasts

1. Confusion Matrix



```
print(metrics.classification_report(test_data['label'].values, test_data['model_preds'].values))
```

	precision	recall	f1-score	support
0	1.00	1.00	1.00	157
1	1.00	1.00	1.00	287
2	1.00	1.00	1.00	160
3	1.00	1.00	1.00	294
4	1.00	1.00	1.00	157
accuracy			1.00	1055
macro avg	1.00	1.00	1.00	1055
weighted avg	1.00	1.00	1.00	1055

2. Accuracy – 100 %

```
[8] print(f"the accuracy is {metrics.accuracy_score(test_data['label'].values, test_data['model_preds'].values)}")
```

the accuracy is 1.0

3. Precision – 100 %

```
[11] print(f"the precision is {metrics.precision_score(test_data['label'].values, test_data['model_preds'].values, average = 'weighted')}")
```

the precision is 1.0

4. Recall – 100 %

```
✓ [12] print(f"the recall is {metrics.recall_score(test_data['label'].values, test_data['model_preds'].values, average = 'weighted')}")  
the recall is 1.0
```

5. Specificity – 100 %

```
▶ print(f"the specificity is {metrics.recall_score(test_data['label'].values, test_data['model_preds'].values, pos_label=0, average = 'weighted')}")  
the specificity is 1.0
```

6. F1-Score – 100 %

```
✓ [13] print(f"the f1 score is {metrics.f1_score(test_data['label'].values, test_data['model_preds'].values, average = 'weighted')}")  
the f1 score is 1.0
```