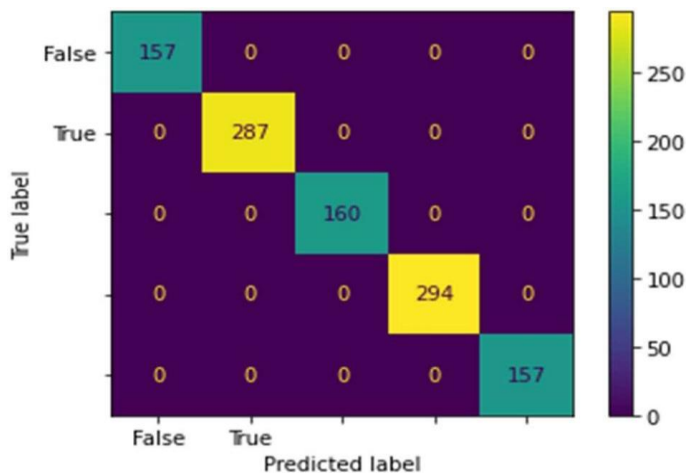


# PERFORMANCE METRICS

<b>DATE</b>	23 NOVEMBER 2022
<b>TEAM ID</b>	PNT2022TMID36987
<b>PROJECT TITLE</b>	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
```