Lecture-4: Performance Evaluation

CSE 4237 : Soft Computing

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Confusion Matrix

Actual/Prediction	Predicted Positive	Predicted Negative
Actual Positive(P)	True Positive(TP)	False Negative(FN)
Actual Negative(N)	False Positive(FP)	True Negative(TN)

Evaluation Metrics

$$precision = \frac{TP}{TP + FP}$$
 $recall = \frac{TP}{TP + FN}$
 $F1 = \frac{2 \times precision \times recall}{precision + recall}$
 $accuracy = \frac{TP + TN}{TP + FN + TN + FP}$
 $specificity = \frac{TN}{TN + FP}$

For More: https://en.wikipedia.org/wiki/Confusion_matrix

Thank You!

Any Queries?