Inspire…Educate…Transform.

# Engineering Big Data

## CM, ROC & AUC

**Sreerama Jeevan**

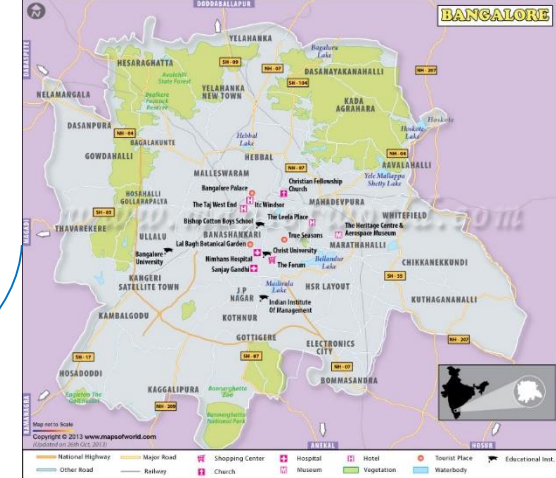| | Total population | True condition | | Accuracy (ACC) = $\frac{\Sigma \text{ True positive} + \Sigma \text{ True negative}}{\Sigma \text{ Total population}}$ |
| --- | --- | --- | --- | --- |
| | | Condition positive | Condition negative | |
| **Predicted condition** | Predicted condition positive | **True positive,** | **False positive,** | Positive predictive value (PPV), Precision = $\frac{\Sigma \text{ True positive}}{\Sigma \text{ Predicted condition positive}}$ |
| | Predicted condition negative | **False negative,** | **True negative** | $F_1 \text{ score} = \dfrac{1}{\frac{\frac{1}{\text{Recall}} + \frac{1}{\text{Precision}}}{2}}$ |
| | | True positive rate (TPR), Recall, Sensitivity, $= \frac{\Sigma \text{ True positive}}{\Sigma \text{ Condition positive}}$ | Specificity (SPC), Selectivity, True negative rate (TNR) $= \frac{\Sigma \text{ True negative}}{\Sigma \text{ Condition negative}}$ | $FPR = 1 - TNR$ |
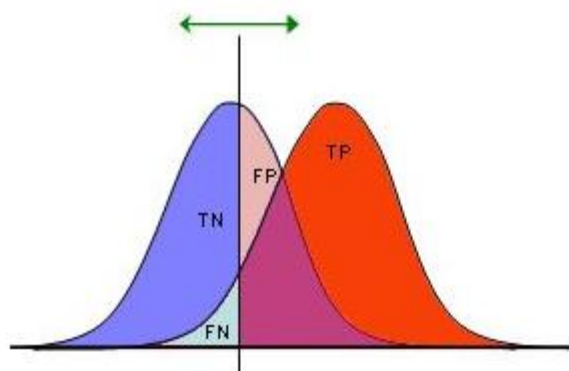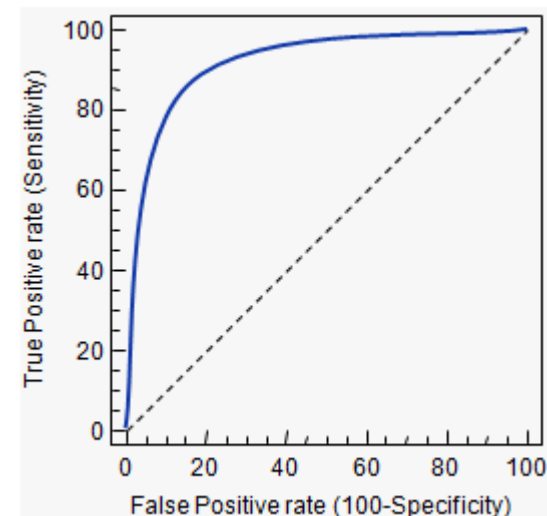
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