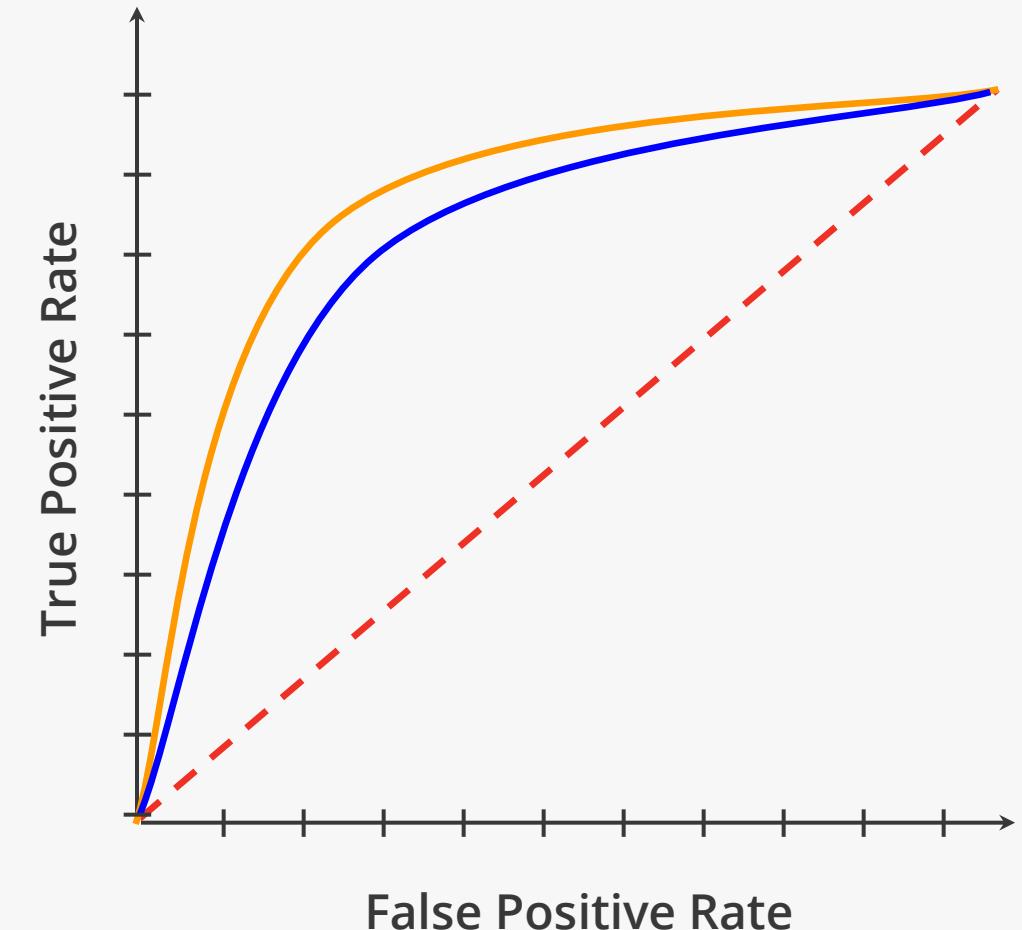


ROC Curve

Receiver Operating Characteristic

ROC Curve plots **TPR** against **FPR** at various thresholds, separating **signal from noise**.

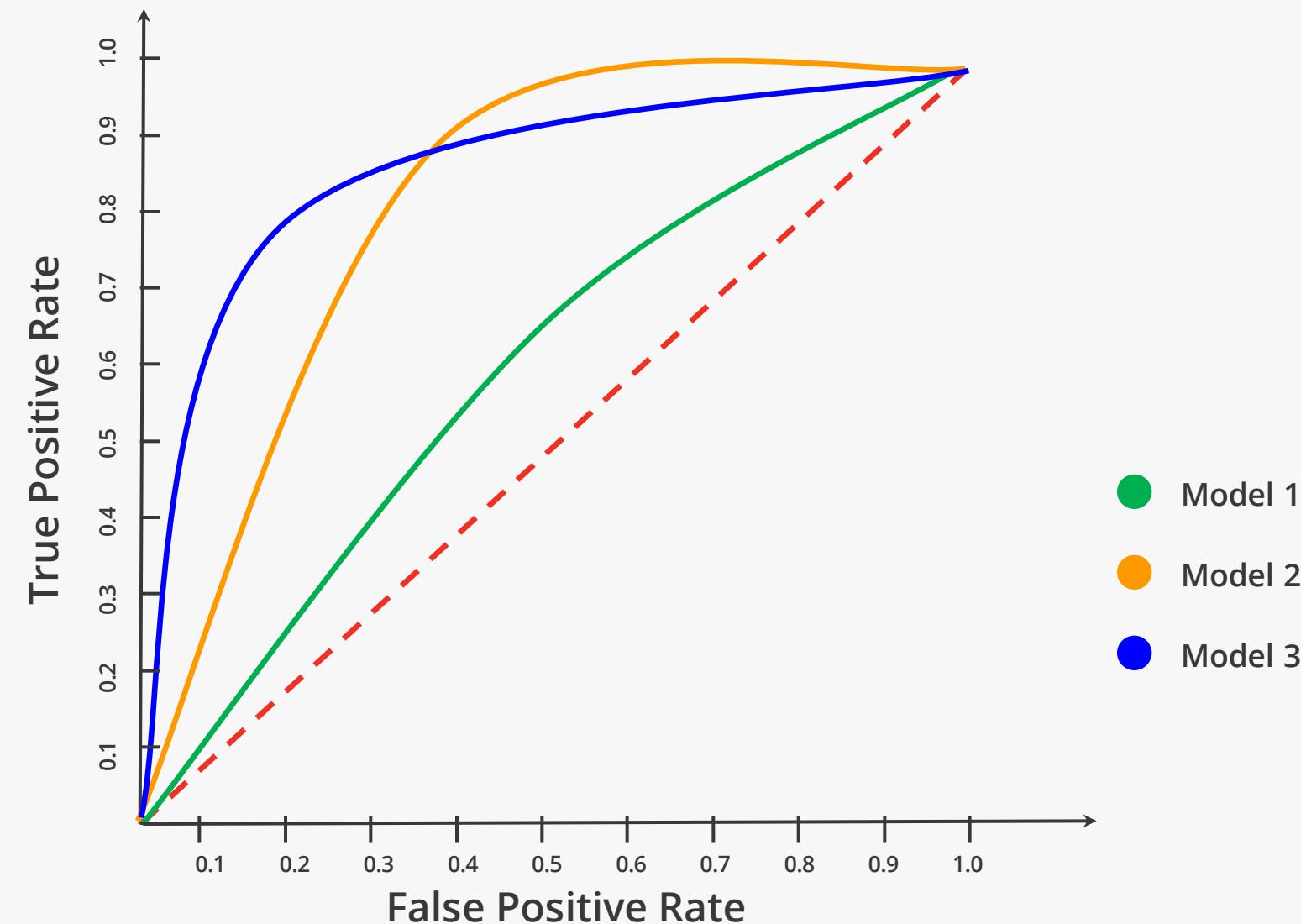


ROC Curve: Synergix

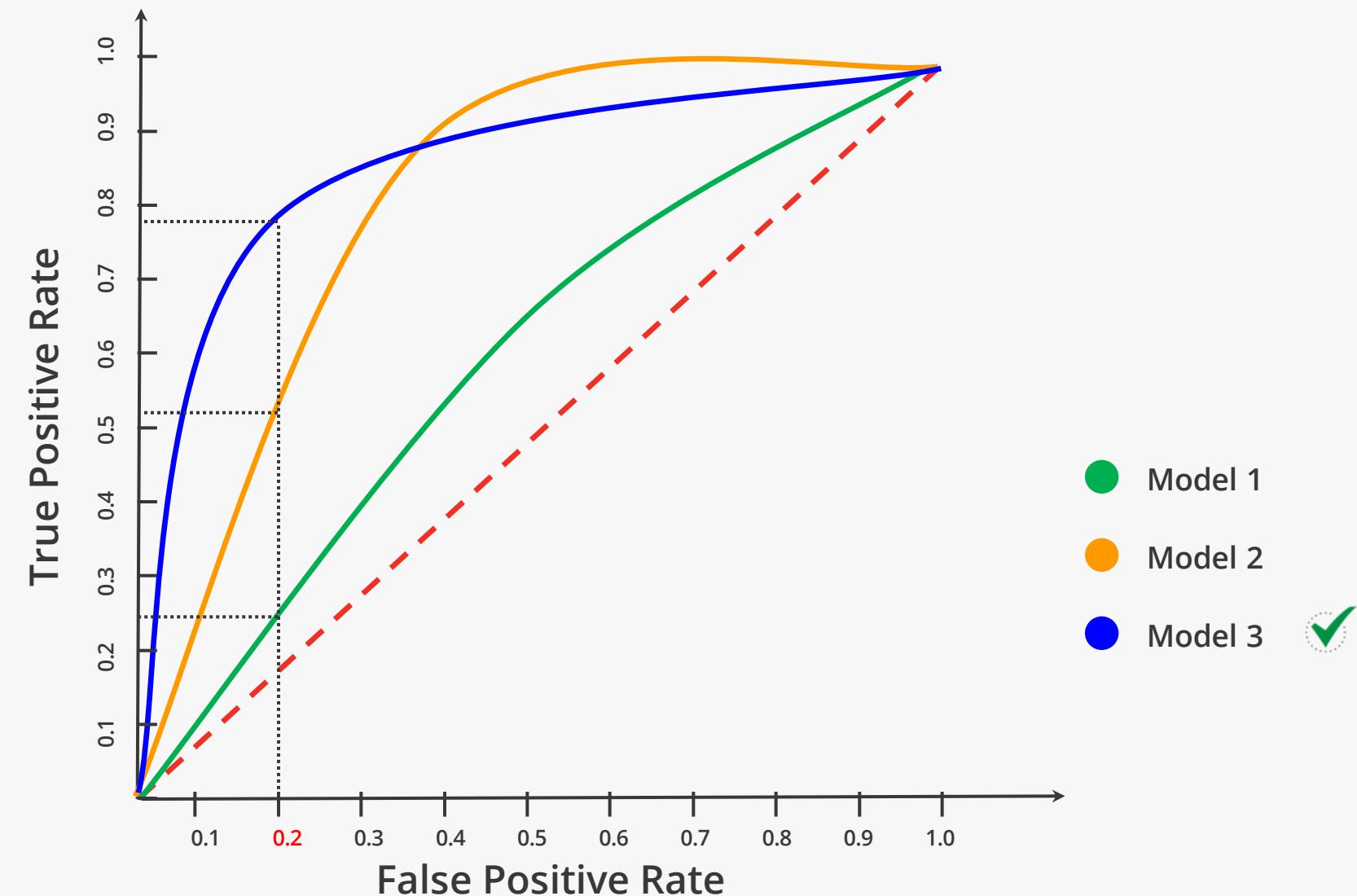
$$\text{TPR} = \frac{\text{Number of samples correctly predicted by model to sell } > 1000 \text{ units}}{\text{Total number of samples which actually sold } > 1000 \text{ units}}$$

$$\text{FPR} = \frac{\text{Number of samples wrongly predicted by model to sell } > 1000 \text{ units}}{\text{Number of samples which actually sold } < 1000 \text{ units}}$$

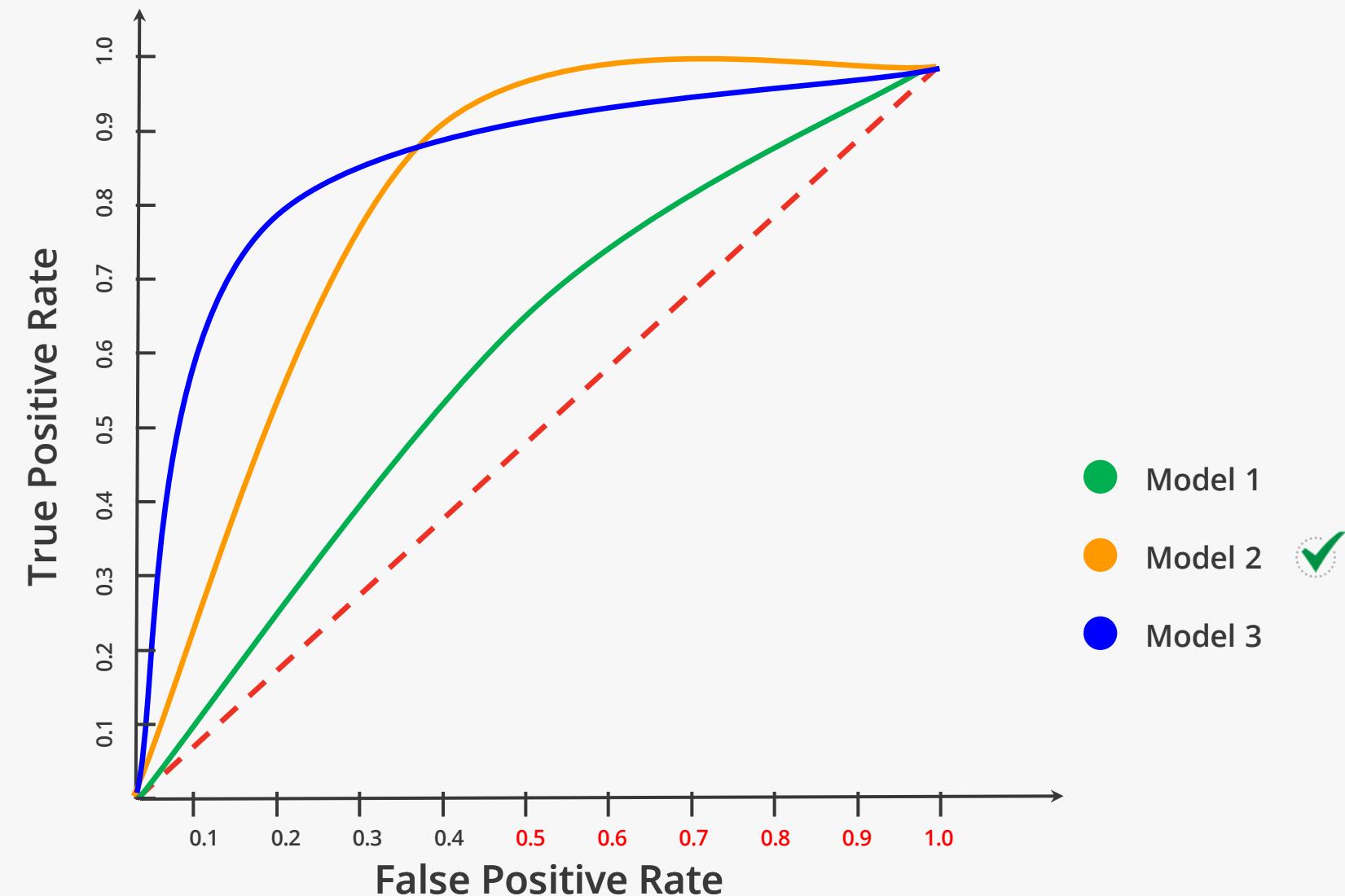
ROC Curve



ROC Curve

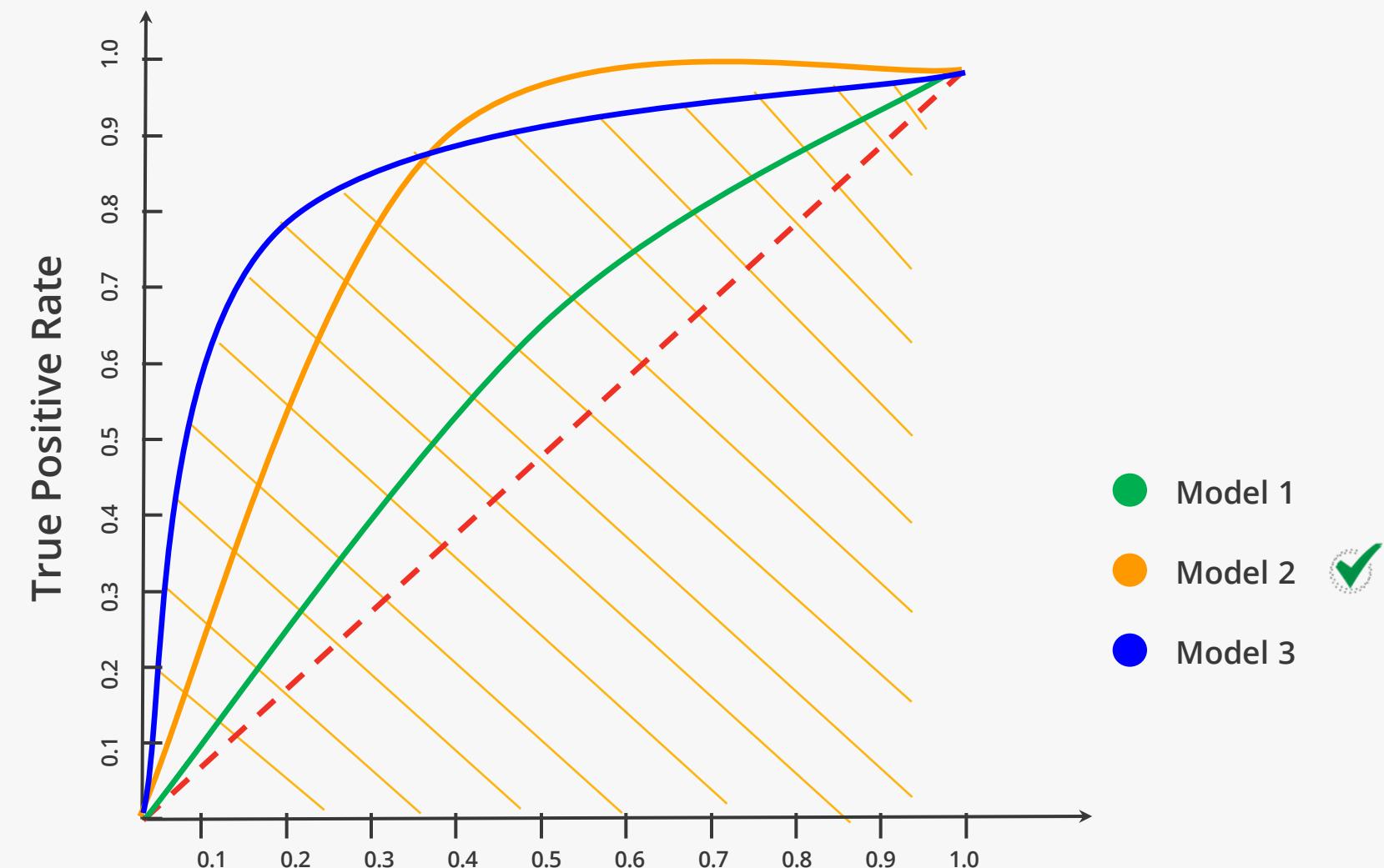


ROC Curve



AUC-ROC Score

Area Under Curve



Ideal ROC Curve

