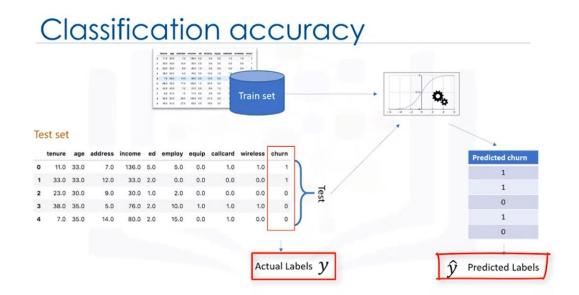
Evaluation Metrics in Classification



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Jaccard index

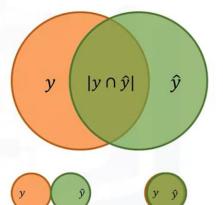
y: Actual labels

 \hat{y} : Predicted labels

$$J(y,\hat{y}) = \frac{|y \cap \hat{y}|}{|y \cup \hat{y}|} = \frac{|y \cap \hat{y}|}{|y| + |\hat{y}| - |y \cap \hat{y}|}$$

y: [0, 0, 0, 0, 0, 1, 1, 1, 1, 1] ŷ: [1, 1, 0, 0, 0, 1, 1, 1, 1, 1]

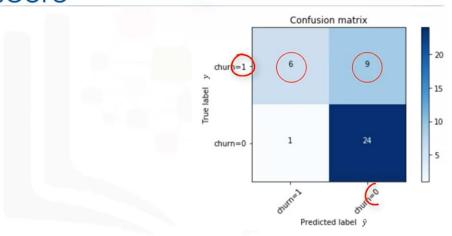
$$J(y,\hat{y}) = \frac{8}{10+10-8} = 0.66$$





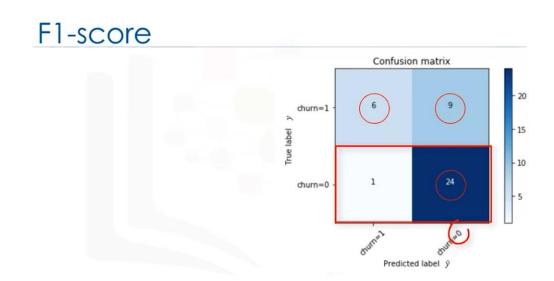
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SKILLS NETWORK

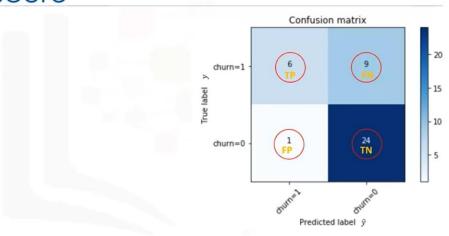


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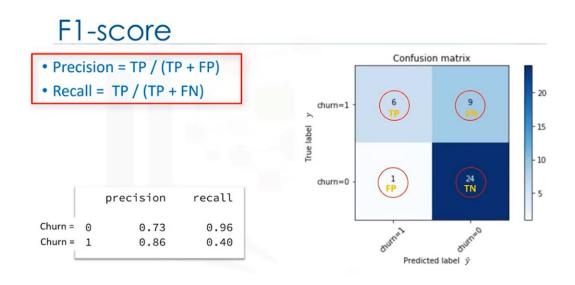




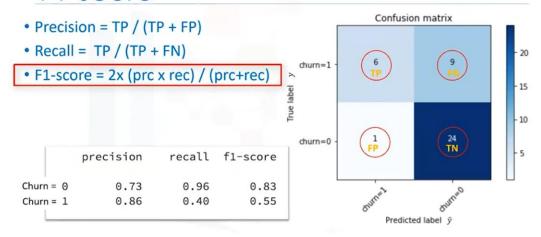


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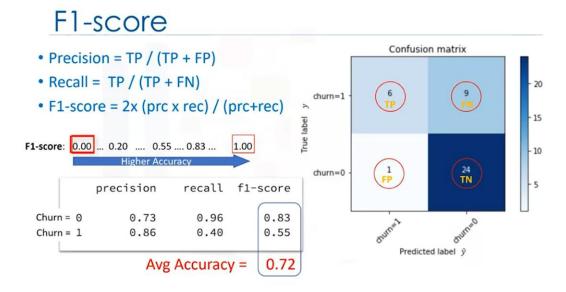




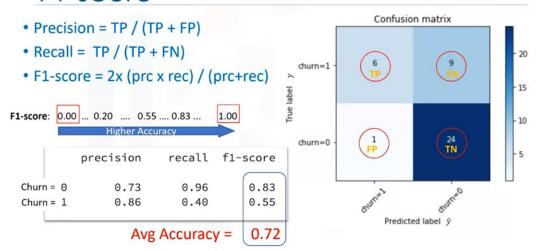


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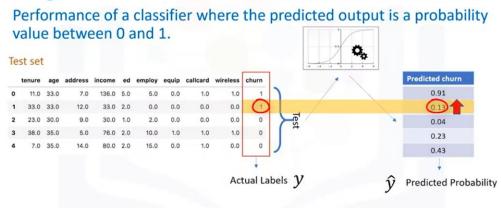




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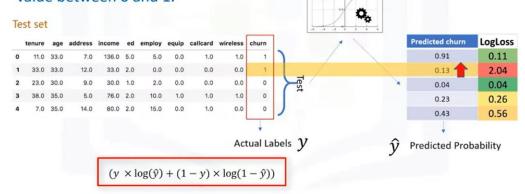
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This prediction would be bad

Log loss

Performance of a classifier where the predicted output is a probability value between 0 and 1.



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Performance of a classifier where the predicted output is a probability value between 0 and 1.

