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Machine Learning Hub

Single Numeric Evaluation Metric

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If you're working in a company on a Machine Learning project, you know that there are often pressures coming from a few different directions that help to shape the project's objectives.

If you make a change to you machine learning and it seems to help achieve 2 of the 5 project objectives but creates decreases in 1 or more other project objectives, how do you decide whether or not to keep the change. How do you know what "progress" is?

One great practice for this is to create a Single Numeric Evaluation Metric. Often this is the % of correct classifications on a test or cross-validation set. That could be summed up as the % accuracy. That works well for many applications, but not for applications with Skewed Classes.

With Skewed Classes, we learned that Precision and Recall are valuable metrics for understanding if the model is progressing, but F Scores make it possible to take both the Precision and Recall values and create a Single Numeric Evaluation Metric.

LANGUAGE

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