QUIZ • 12 MIN

Metrics

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Metrics

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1. **Suppose we solve a binary classification task and our solution is scores with logloss. What predictions are more preferable in terms of logloss if true labels are y_true = [0, 0, 0, 0].** — 1 point
   - y_pred = [0.4, 0.5, 0.5, 0.6]
   - y_pred = [0.5, 0.5, 0.5, 0.5]
   - y_pred = [0, 0, 0, 1]

2. **Suppose we solve a regression task and we optimize MSE error. If we managed to lower down MSE loss on either train set or test set, how did we change Pearson correlation coefficient between target vector and the predictions on the same set?** — 1 point
   - The correlation became birger.
   - The correlation did not change.
   - The correlation was also lowered.
   - Any behavior is possible.

3. **What would be a best constant prediction for a following multi-class classification task with 4 classes? The solution is scored with multi-class logloss. The number of objects of each class in train set is: 18, 3, 15, 24.**

   Enter four comma separated values. Round each to two decimal places and use a leading zero before a fractional part (e.g. "0.50"; not ".5"). — 1 point

   Enter answer here

4. **What is the best constant predictor for R-squared metric?** — 1 point
   - Target mean divided by target variance
   - Target mean
   - 0.5
   - (Log of target mean) + 1
   - One minus target mean

5. **Select the correct statements.** — 1 point
   - Optimization loss is always the same as target metric.
   - Optimization loss can different to target metric.
   - Optimization loss can be the same as target metric.
   - Optimization loss is always different to target metric.

6. **Suppose the target metric is M1, and optimization loss is M2. We train a model and monitor its quality on a *holdout set* using metrics M1 and M2.** — 1 point

   Select the correct statements.
   - There is no definite relation between the best iterations for **M1** score and **M2** score.
   - If the best **M1** score is attained at iteration N, then the best **M2** score is always attained also at the iteration N.
   - If the best **M1** score is attained at iteration N, then the best **M2** score is always attained after N-th iteration.
   - If the best **M1** score is attained at iteration N, then the best **M2** score is always attained before N-th iteration.

I, **Hong-Yuan Lin**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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