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Mean F Score

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MeanFScore at Kaggle is actually a **micro-averaged F1-score**.

Given positive/negative rates for each class k, the resulting score is computed this way:

$$Precision_{micro} = \frac{\sum_{k \in C} TP_k}{\sum_{k \in C} TP_k + FP_k}$$

$$Recall_{micro} = \frac{\sum_{k \in C} TP_k}{\sum_{k \in C} TP_k + FN_k}$$

F1-score is the harmonic mean of precision and recall

$$MeanFScore = F1_{micro} = \frac{2 Precision_{micro} Recall_{micro}}{Precision_{micro} + Recall_{micro}}$$

Macro-averaged F1-score is the average mean of harmonic means of precision and recall of each class

$$F1 - macro = \frac{1}{|C|} \sum_{k \in C} F1score_k = \frac{1}{|C|} \sum_{k \in C} \frac{2 P_k R_k}{P_k + R_k}$$

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