Practical Lessons from Predicting Clicks on Ads at Facebook

GBDT+LR

GBDT

Gradient Boosting Decision Tree

$$\hat{y}_i = \sum_{k=1}^K f_k(x_i), f_k \in F$$

NE

Normalized Entropy

$$NE = \frac{-\frac{1}{N} \sum_{i=1}^{n} \left(\frac{1+y_i}{2} log(p_i) + \frac{1-y_i}{2} log(1-p_i) \right)}{-(p * log(p) + (1-p) * log(1-p))}$$

