python

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你好,卧TEX

算法 1 Exact Greedy Algorithm for Split Finding

INPUT: *I*, *instancesetofcurrentnode*

 $\textbf{INPUT:}\ d, feature dimension$

- 1: $gain \leftarrow 0$
- 2: $G \leftarrow \sum_{i \in I} g_i, H \leftarrow \sum_{i \in I} h_i$
- 3: for k = 1 to n do
- $G \leftarrow 0, H \leftarrow 0$
- for j in sorted $(I, \text{by } x_{jk})$ do 5:
- $G_L \leftarrow G_L + g_j, \quad H_L \leftarrow H_L + h_j$
- 7:
- $G_R \leftarrow G G_L, H_R \leftarrow H H_L$ $score \leftarrow \max\left(score, \frac{G_L^2}{H_L + \lambda} + \frac{G_R^2}{H_R + \lambda} \frac{G^2}{H + \lambda}\right)$

OUTPUT: Split(包括选用的特征,分裂阈值) with max score