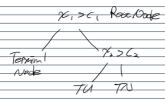
#### Week 4

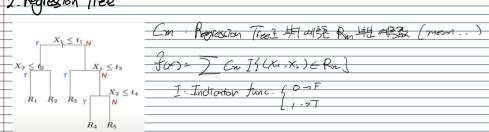
#### 1. Decision Tree

데이터 2거 아상이 부방(요 of '군항이기로' 년란

长: 帐证明 强剂 明等特别测



# 2 Regression Tree



O, GOOD MYLLE (C)= I Con I (DERON)

@ 3 Kitale Cost function 3/2 ou

 $\frac{MM}{2} \left( y_5 - tex_5 \right)^2 \quad \hat{C}_m = ave \left( y_5 \mid \chi_2 \leqslant R_m \right)$ 

一步 班 玩 明川 叶木 当

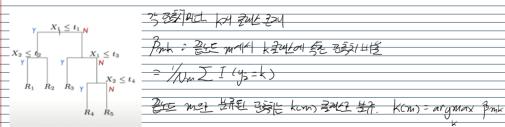
## 艺艺中一 表现不

R. (j.s) = 5x1xj2s) R. (j.s) = 5x1x5>s)

arymin [ min ] (4; -(,) 2 + min ] (4; -(,) 2 3.5 - (, 7:6), (2 + 26),

I cy-2, 12 + I cy-2, 2 ~ 7,5 + 6/47/17/5/3

### 3. Clasification

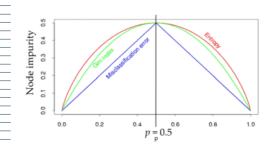


fcx) = 2 kcm) [ {(x,x) ERm}

O Mischssitication Rate [/Um ] - 1-Bomk)m] ~ 经 增生 图 中国

@ GTINT INDEX [ Z Park Park = Z Park (1-Pank)

3 Crox-Entropy [- 2 Pmk log Pnk



 $3 \text{ Gay - Entropy } \left[ -\frac{1}{2} \right]_{\text{mx}} \left[ \frac{1}{2} \right]_{\text{nx}} \left[ \frac{1}{2} \right]_{\text{nx}$ 

=) 35年0州 热性及野谷毕 紫红 等外主动和 王号

Internation Cain IG . 38HG 184 Entropy 2025.

IG(S,A) = Intropy(S) - 2 (S) Intropy(Sv) : HA ABA IG.

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