1- 2 MK I MK = 1 1- Zuk2 + > (ZUK-1) 3/1 = -2/1 x + //2 => Mx = = 工版 =1 => K·五=1 => 入=菜. MK = 1 max impurity = 1- K. - = 1- = M+(1-2(M+-M-)+(M+-M-)))  $-\mu_{-}(1-2(\mu_{+}-\mu_{-})+(\mu_{+}-\mu_{-})^{-})$ 1 + (M+-M-) - 2M+ - 2M-2 + 4M+M-= (- Mt - M- 2 M+ M- + r (1-Mt - M2) Ireur. not scaled gini impurity

Double A

3.  $(1-\frac{1}{N})^{PN} = \left[\left(1-\frac{1}{N}\right)^{N}\right]^{T} \approx e^{-P}$ > John N'们.该,未被抽到到比约以 is the number of unsample K個 classification 至少要豐個和於有日本電出館 在磁场的指现下、指所有的分型及器 集中在些個分類點上。看很 Tout (6) 预大 ttoj Zone (4) = Zer/Kel = Z Zek By Levene 11 P. 17. di is optimal of by gi-transformed LinearReg which min ~ Z ( (yn-Sn)-79,(K)) 2 By Formula of OLS.  $\frac{Z}{Z} \left[ g_1(xn)^2 (yn-sn) \right] = \frac{1}{11.26}$ X = 7=

Double A

7. Turitially S,= --- = Sn = 0 In de first itoration: squarederror we find gt by running regression on strn, ynss after ful 9t when we fund X1 sur ve here to minimine min To Z (yn-g+(xn)  $\bigcirc$ di = 1) must be 1 since its the some objection of vegression it the frist Here regression.  $\bigcirc$  $\bigcirc$  $\bigcirc$  $\bigcirc$  $\bigcirc$ 

$$= -\left(V_{1}\frac{1}{2}, \frac{1}{3}\frac{1}{3}\frac{1}{5}+\cdots+V_{K}\frac{1}{2}\frac{1}{3}\frac{1}{5}\frac{1}{5}K\right) + V_{K}\frac{1}{2}\frac{1}{3}\frac{1}{5}\frac{1}{5}K$$

$$\frac{\partial g_i}{\partial s_j} = -g_i g_j \quad \text{for } i \neq j$$

