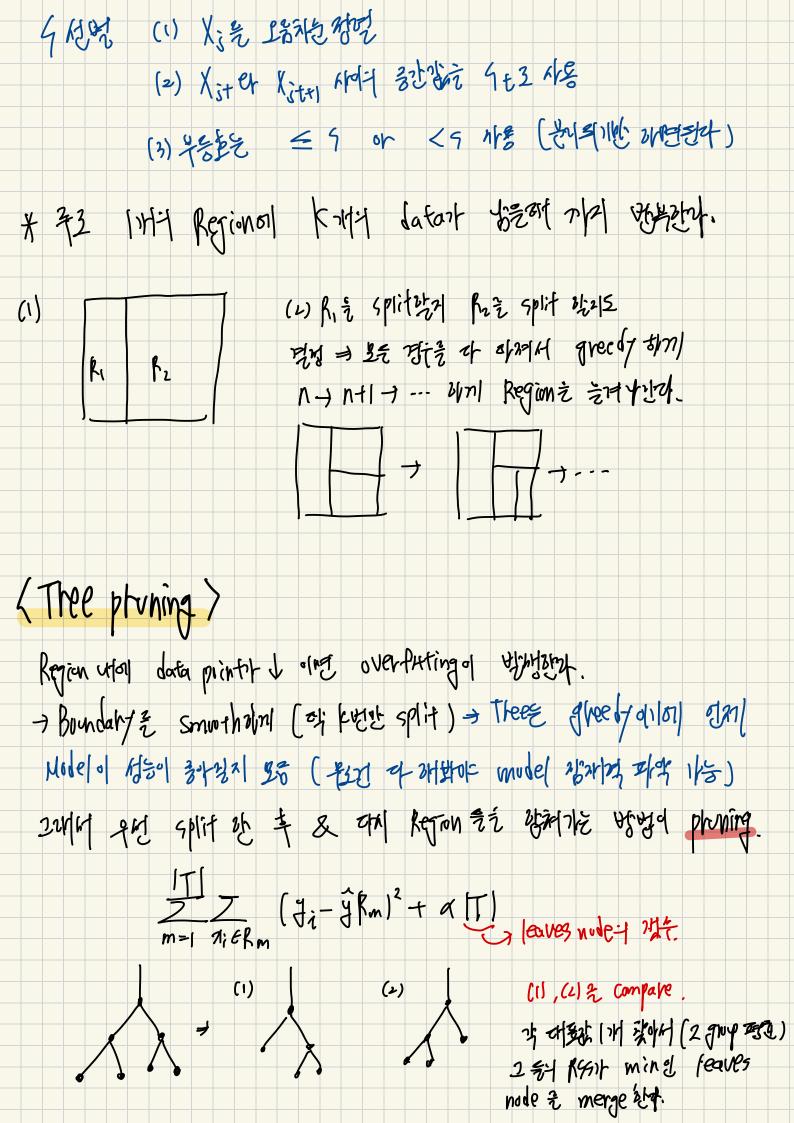


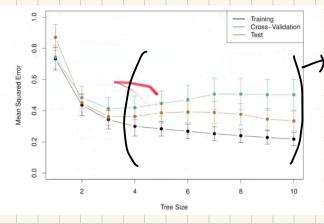
Regression? For st

2014 में हिल्ला मेर्च 2 अमि minimize यह ट्रिसे ८ दिये.

평균은 데이터들의 오차 제곱을 최소화 해주는 하나의 대푯값이다. 절대값의 오차를 최소화 해주는 대표값은 중앙값이다

(Top-down Greedy Algorithm)





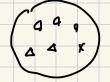
over fitting 2/2a.

3, leaves note = 301 startages

(Clugification Thee >

47 (ategorica) - Region = 447 relect=3 497.

(1) Region spitable



0: 多本: 2 x: 1 電子料料 0 9 科医.

(2) Representation value 934

"[mpunity": Ron 2141/2 32 class)+ Ison \$23.



mirimize)

1 Impurity (R (V, JS)) + 1 Impurity (R2(V, J, S))

(Impurity)

Impurify
$$(R) = -\frac{1}{2} \frac{4}{k} \log R_{3.k}$$

Impurity $(R_j) = -\sum_{k=1}^{\infty} p_{j,k} \log p_{j,k}$

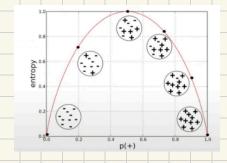
- This is called entropy.
 - Illustration by example:
 - [1, 0, 0, 0, 0] → -1 log 1 = 0 // nt3 %
 - $[0.5, 0.5, 0, 0, 0] \rightarrow -2 * 0.5 \log 0.5 = \log 2$
 - \blacksquare [0.2, 0.2, 0.2, 0.2, 0.2] \rightarrow -5 * 0.2 log 0.2 = log 5

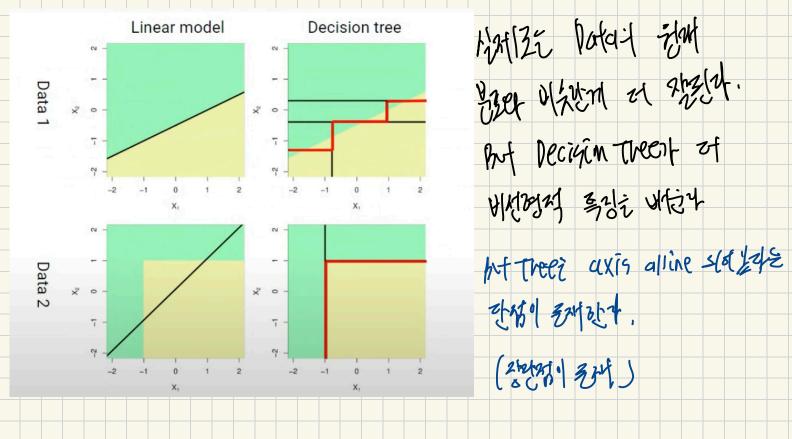
划部 部.

< Gini-index >

 $G = \sum_{i=1}^{K} p_{j,k} (1 - p_{j,k})$

- Illustration by example:
 - **■** [1, 0, 0, 0, 0] → 0
 - $[0.5, 0.5, 0, 0, 0] \rightarrow 2 * 1/4 = 0.5$
 - $\blacksquare \quad [0.2, 0.2, 0.2, 0.2, 0.2] \rightarrow 5 * 0.2 * 0.8 = 0.8$





Thee 9 pho : (1) 4 of oh) that .

Treely (mg: C1) Her 421 824.

(2) Robust 部 94 + Trainon性 独 96-... (河湖)

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