Decision Tree Regressor

Dataset

1) Continuous

DT Classifier

DI Regression

Caveer Gap

1 Entrolog

1) Variance Reduction

Exp

Salery

(2) 4·I

2 Yanque

Yus

40K

3 Information Gain

Yus

42K

) 3

No No

52K

Yus

60K

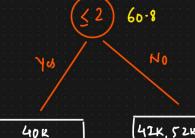
4.5

56K

SOK [Man]

0.10

[40K, 42K, 52 K, 60K, 56K] (D)



42K, 52K, 60K, 56K

Final am Variance Reduction

Variance or = 1 \(\frac{1}{5}\) \(\frac{1}{5}\

Variance (Root) = 1 [(40-50)2+(42-50)2+(52-10)2 + (60-50)2+(56-50)2]

$$= \frac{1}{5} \left[(00 + 64 + 4 + (00 + 36)) \right]$$

$$= 60.8$$

401, 42K 52K, S6K, 60K

Var (Root) = 608 Nar(Lift) = 1 100 + 64 Van(Right) = 1 (4+36+100)

= 46.66

Variance (Legt) =
$$\frac{1}{1} \left[(40-50)^2 \right]$$
= 100 /.

Variance (Right) = $\frac{1}{4} \left[(64) + 4 + 100 + 34 \right]$.
= 51 /.

$$= 60.8 - \left[1 + 100 + 4 \times 51 \right]$$

Vaviance

Reduction

Vandace

Reduction

1

Sclut

this Split

Wit feature.

Amorage =
$$52+60+56 = 56K$$