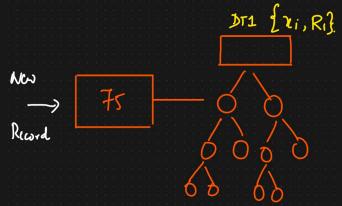
Gradient Boosting Algorithms

- 1) Regression
- 2 classification

Skys

1) Cream a Base Model

- 2 Compute Residuals, Error
- 3 (onetruit a Decision True consider inputs X; and ofp Ri



Bac Model

Predicted OIP : 
$$75 + 6 (-23)$$

$$= 75 + (0.01)(-23)$$

$$= 75 - 0.23$$

$$= 74.77$$

$$d = dearning Rake$$
  
 $d = 0.01 \rightarrow \{0 \text{ to } 1\}$ 

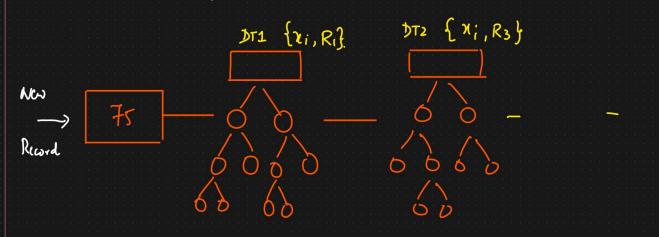
$$\frac{P_{ndiched} \ 0/P}{=} = 75 + \&(-3k)$$

$$= 75 + (0.01)(-3)$$

$$= 35 - 0.03$$

$$= 74.97/1.$$

**①** 



Bare Model

O/P = 75 + 6, (DT1) + d2 (DT2) + - - - (n(DTn).

Mathematical

Ro=1

$$F(x) = d_0 h_0(x) + d_1 h_1(x) + d_2 h_2(x) + - - + d_n h_n(x)$$
  
 $\{d_0, C_1, d_2, - d_n\} \rightarrow h_1 Cyrring Rak \{0 + 0 1\}$