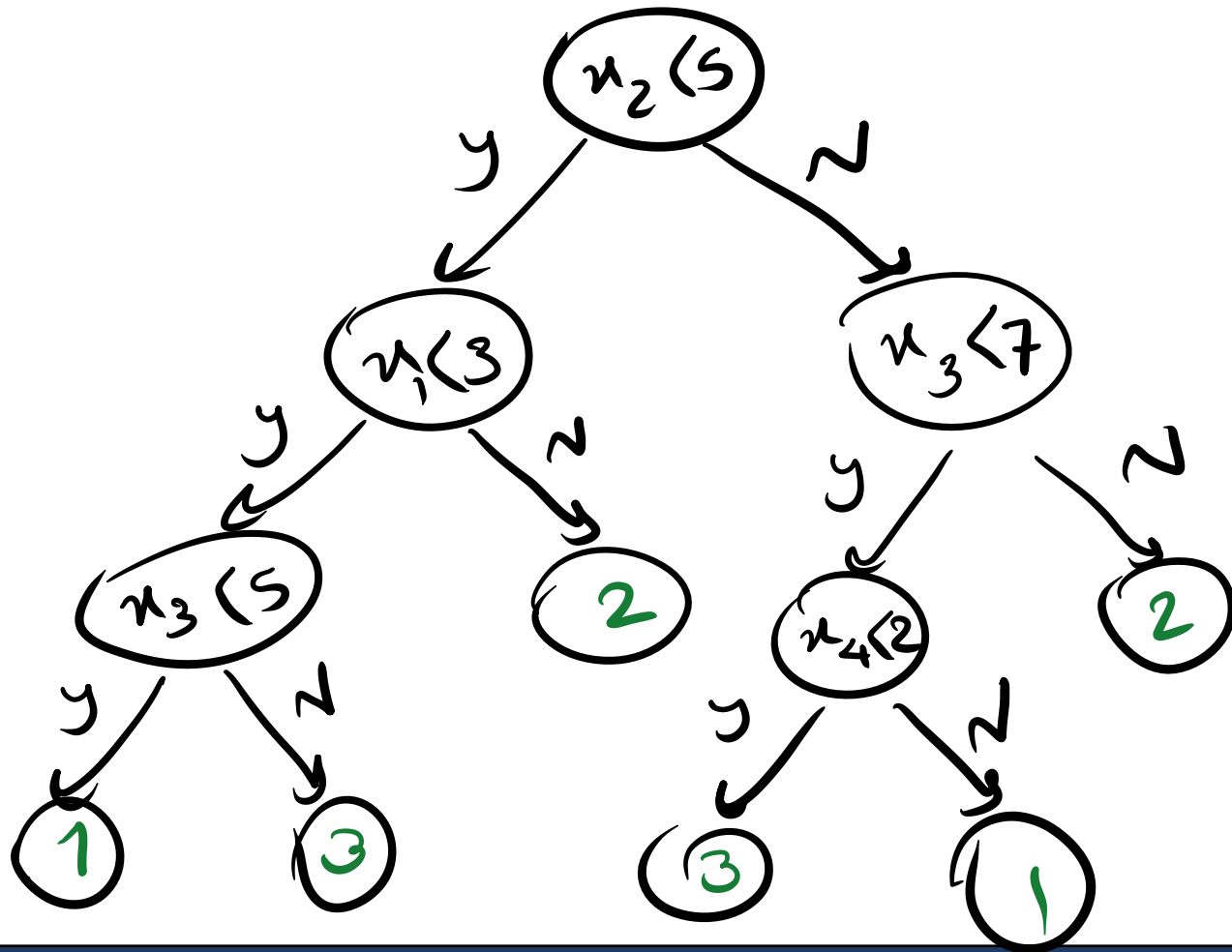
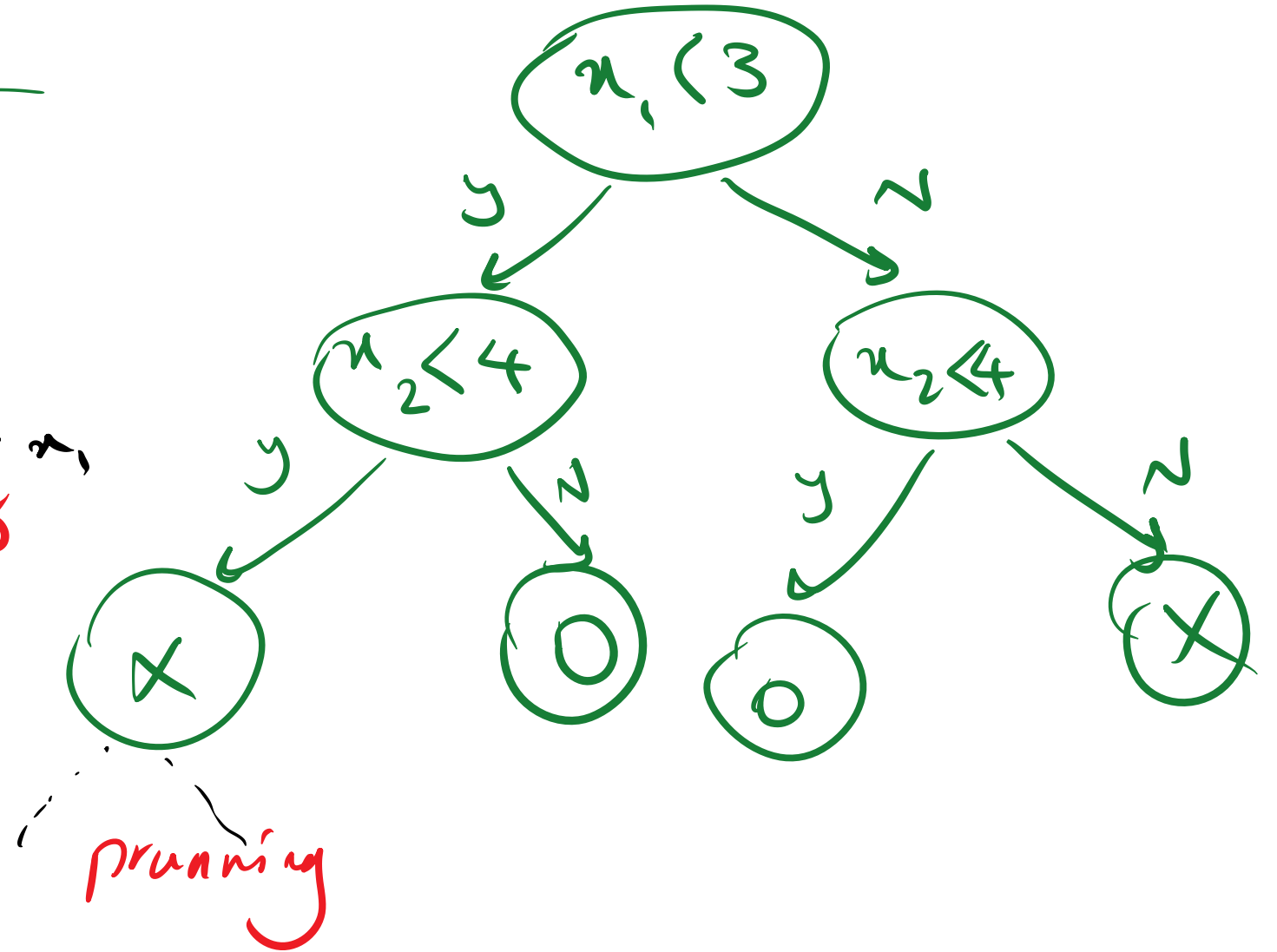
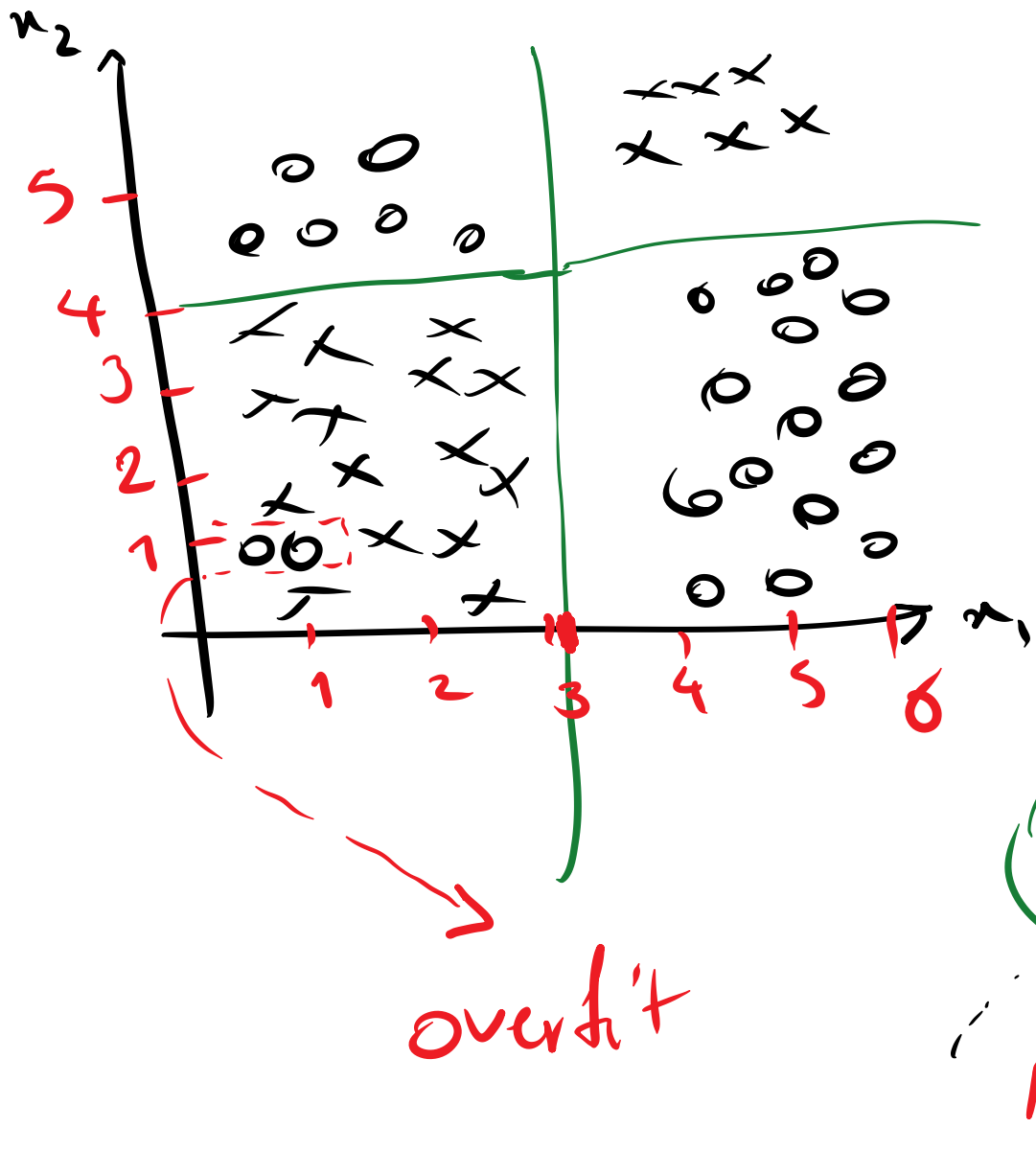


parting

Decision Tree

	f_1	f_2	f_3	f_4	
$x_{t1}:$	5	6	3	7	①
$x_{t2}:$	3	2	1	4	②





—
دقت (؟)

استفاده در اینجا X

+
ساده و سریع

✓ Categorical
✓ مورد

Random Forest

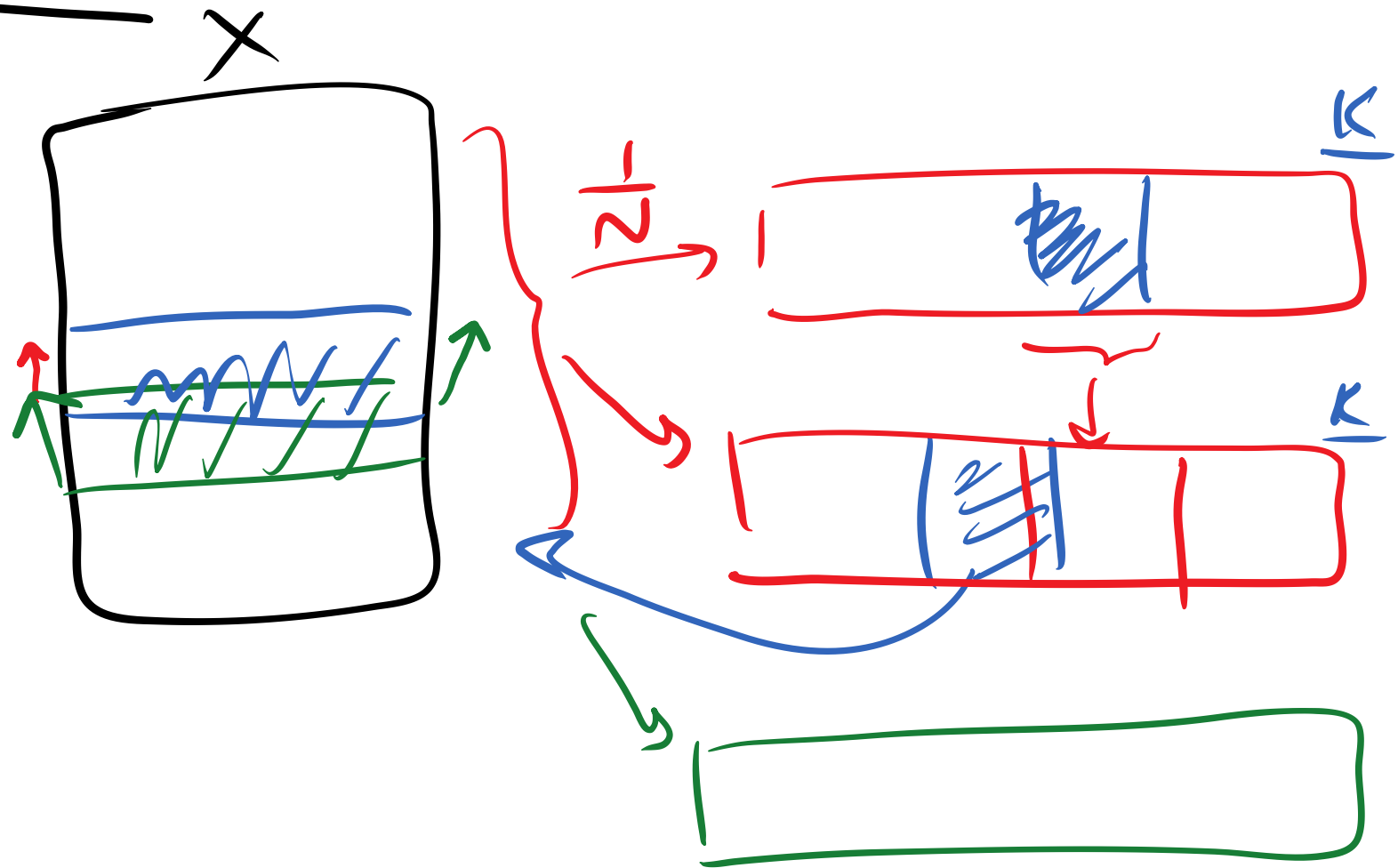
جستارهای

bagging Decision Tree

Ensemble classifiers

Boosting

Adaboost



Regression

Linear
Regression

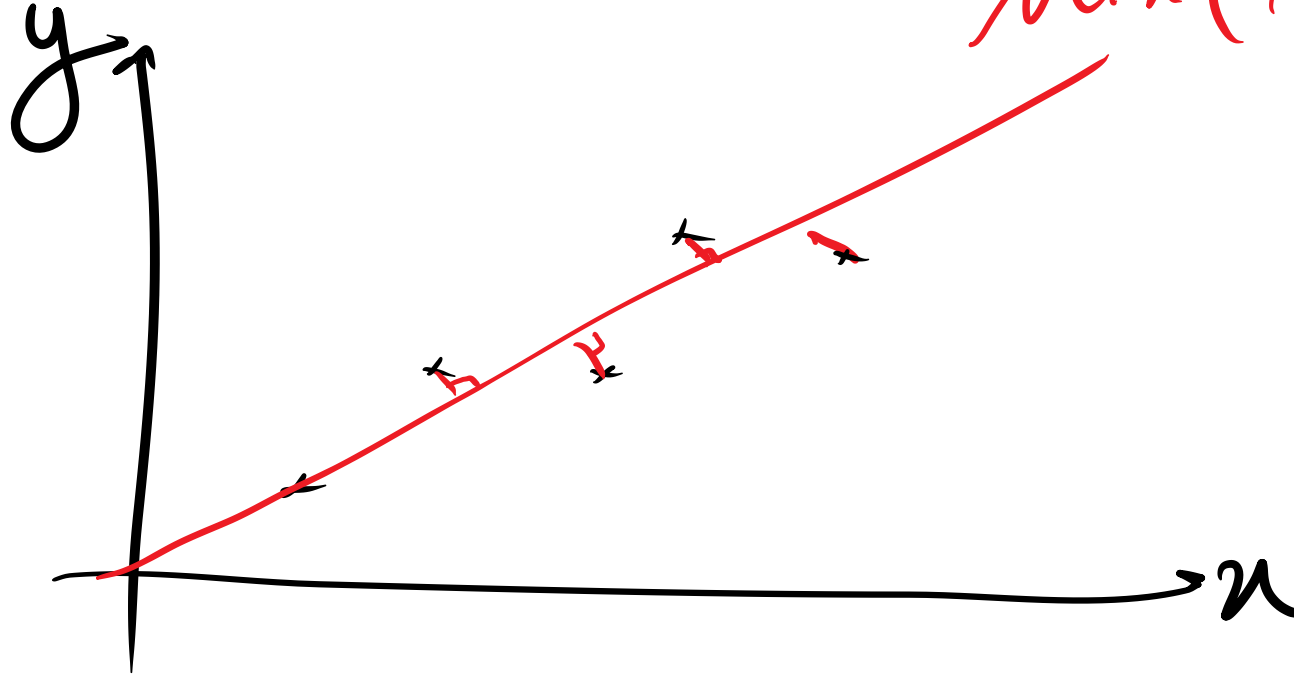
حزبه ارسال
ایه

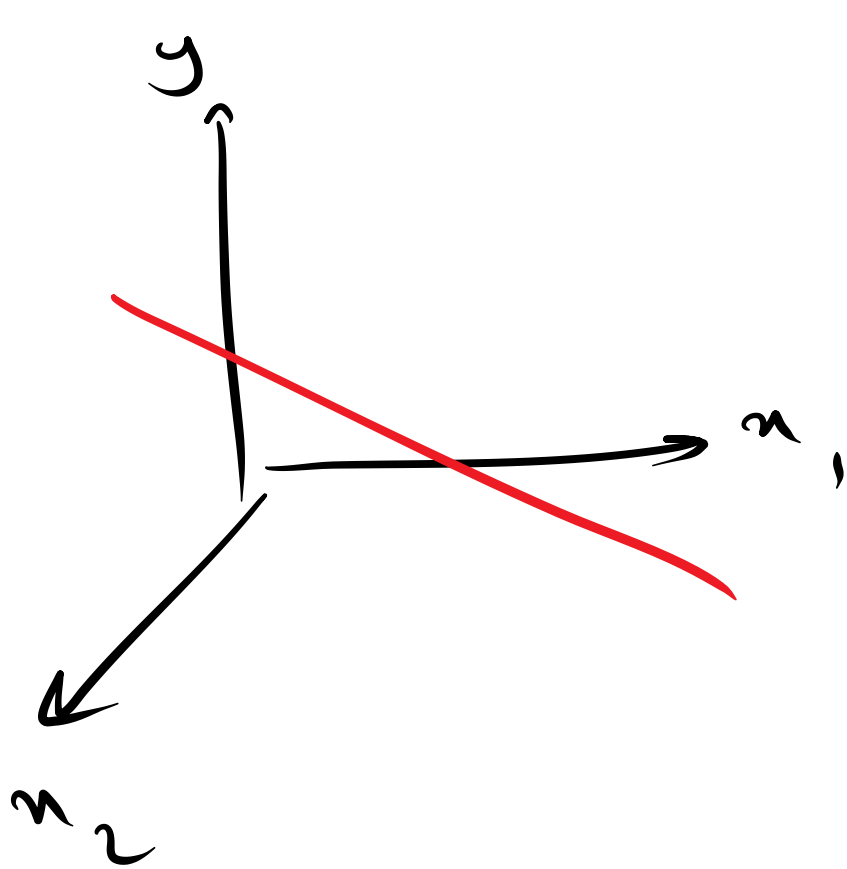
$$\alpha_1 \text{ صف} + \alpha_2 \text{ وزن} + \alpha_3 \text{ شب} + \alpha_4 \text{ تم} + \alpha_5 \text{ کسب}$$

Sup Box

$$+ \alpha_6 \text{ ربع راسه} + \alpha_7 \text{ ارزه} + \beta$$

$$y = \underline{a}x + \underline{b}$$





Ridge Regression : $\text{Min}(\text{MSE} + \alpha \underbrace{\|w_i\|}_{\text{Regularization}})$

$$y = w_1 x_1 + w_2 x_2 + \dots + w_p x_p + \beta$$

$\alpha \uparrow \longrightarrow$ under fit

$\alpha \downarrow \longrightarrow$ over fit

Regularization