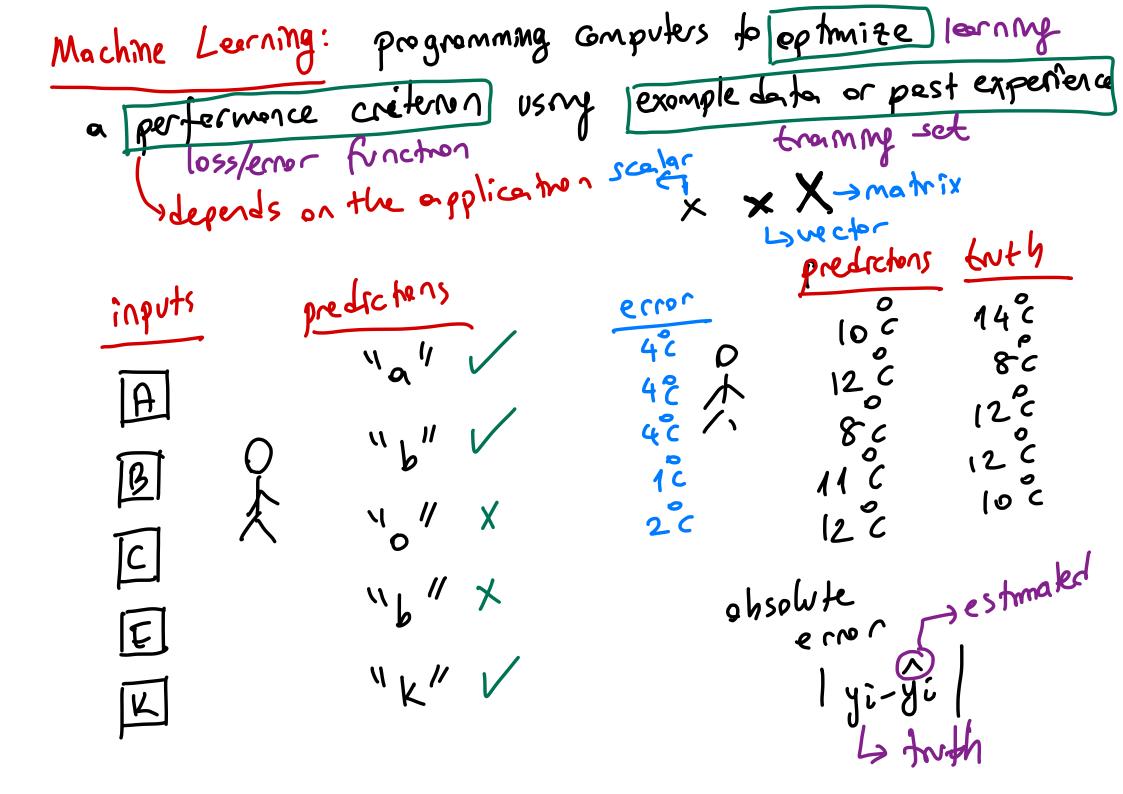
Algorithm -sorting - searching -giver a list of #s -task: to order these #5
from smallest to largest list of #5 [Algorithm] > or dered | list - fixed set of rules - deterministic

Algorithm - subject wity exemple dates, ourseen data

(exemple dates) out-of zomple

past expurince) out-of zomple

the, Mily	A B J A data  A "" " " " " " " " C output  (Supervision)
4654	BXthis is letter of this is letter by

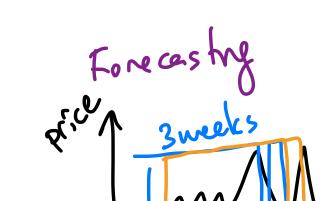


Supervised Learning:  $\chi = \{(xi, yi)\}_{i=1}^{\infty} \rightarrow \text{Hof data}$ thommy set  $= \{(xi, yi)\}_{i=1}^{\infty} \rightarrow \text{Hof data}$ the many set  $= \{(xi, yi)\}_{i=1}^{\infty} \rightarrow \text{Hof data}$ where  $= \{(xi, yi)\}_{i=1}^{\infty} \rightarrow \text{Hof d$ Teh larget/oxput , (xn, yn)}  $X = \{(x_1, y_1), (x_2, y_2),$  $\chi = \{([], \Box)\}_{\overline{a}}^{1}$ Chassification X1 = "" y1 X2= 92= <u>S</u> "5" Y2 43= t xi EIR400 Vi @ | ? ] yit {a,b,..., ≥3

 $f\left( \left\lfloor \right\rfloor \right) = \frac{4}{9}N+1$ (JN+1) ? predefined class labels" Multiclass classification Binary classification #ofclasses >2 # of classes = 2 a new custemer De test de de point A A A - bad good

$$\mathcal{X} = \left\{ \left( x_i, y_i \right) \right\}_{i=1}^{N}$$

yiEIR 27,54 USD/TRY Picture Age



1 1 merpen 3 meeks

(m)

$$X_1 = \begin{bmatrix} P_1 \\ P_2 \\ \vdots \\ P_{21} \end{bmatrix}$$

Unsupervised Learning clusterny  $\chi = \{2 \times i \}_{i=1}^{N}$ NO CLASS LABELS! ? milk, cholocele, nuts bonones, milk, eggs, benanas president 13 freeleef 12 mflation 8 reprishation la ller 8 deller 6