

Classification

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Finding an apartment



1. # rooms

2. price

3. distance from campus

Finding an apartment

(COLUMN)
VECTOR

Apt 1: $\begin{bmatrix} 2 \\ 6500 \\ 6 \end{bmatrix}$ 1. # rooms
2. price
3. distance from campus

Finding an apartment

Apt 1: $\begin{bmatrix} 2 \\ 6500 \\ 6 \end{bmatrix}$

Finding an apartment

4 COLUMNS (APTS)

3 ROWS (FEATS)

	2	1	2	3
	6500	4800	9300	10000
	6	12	3	2

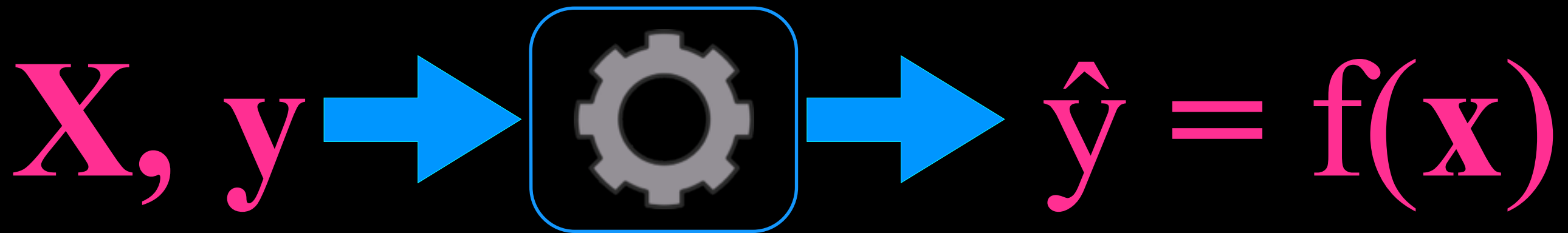
Finding an apartment

CLASSIFICATION:

LEARN TO PREDICT \hat{y} FOR ANY x

X	[2	1	2	3]
		6500	4800	9300	10000	
y	[6	12	3	2]
		yes	no	yes	no	

Classification



Take-home points

- classification: predict labels \hat{y} for instances \mathbf{x}
- feature quality determines quality of $f(\mathbf{x})$!

Thanks!

Questions?