

Machine Learning Zoomcamp  
Session #1.3

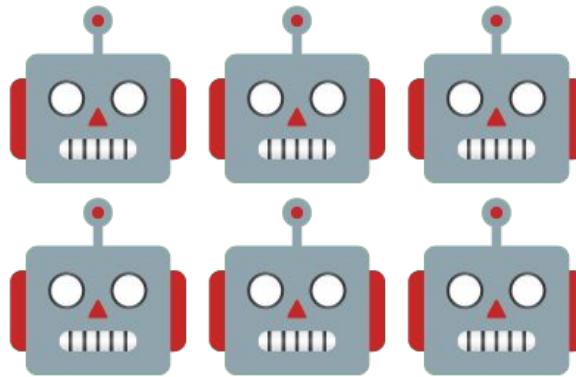
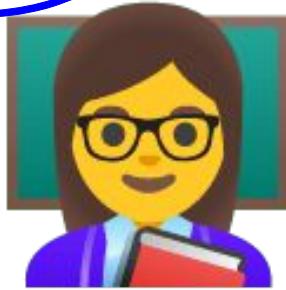
# Supervised Machine Learning

DataTalks.Club

## Session #1.2: Plan

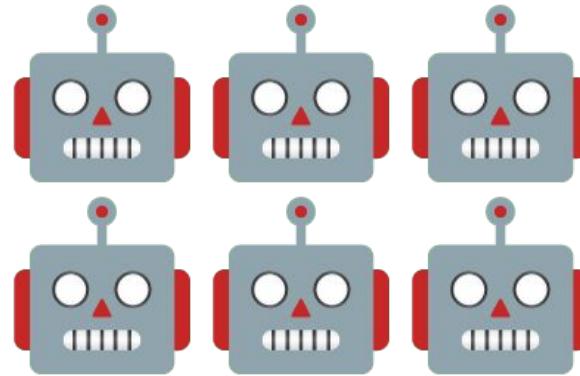
- Formal definition of supervised machine learning
- Examples: regression, classification, ranking

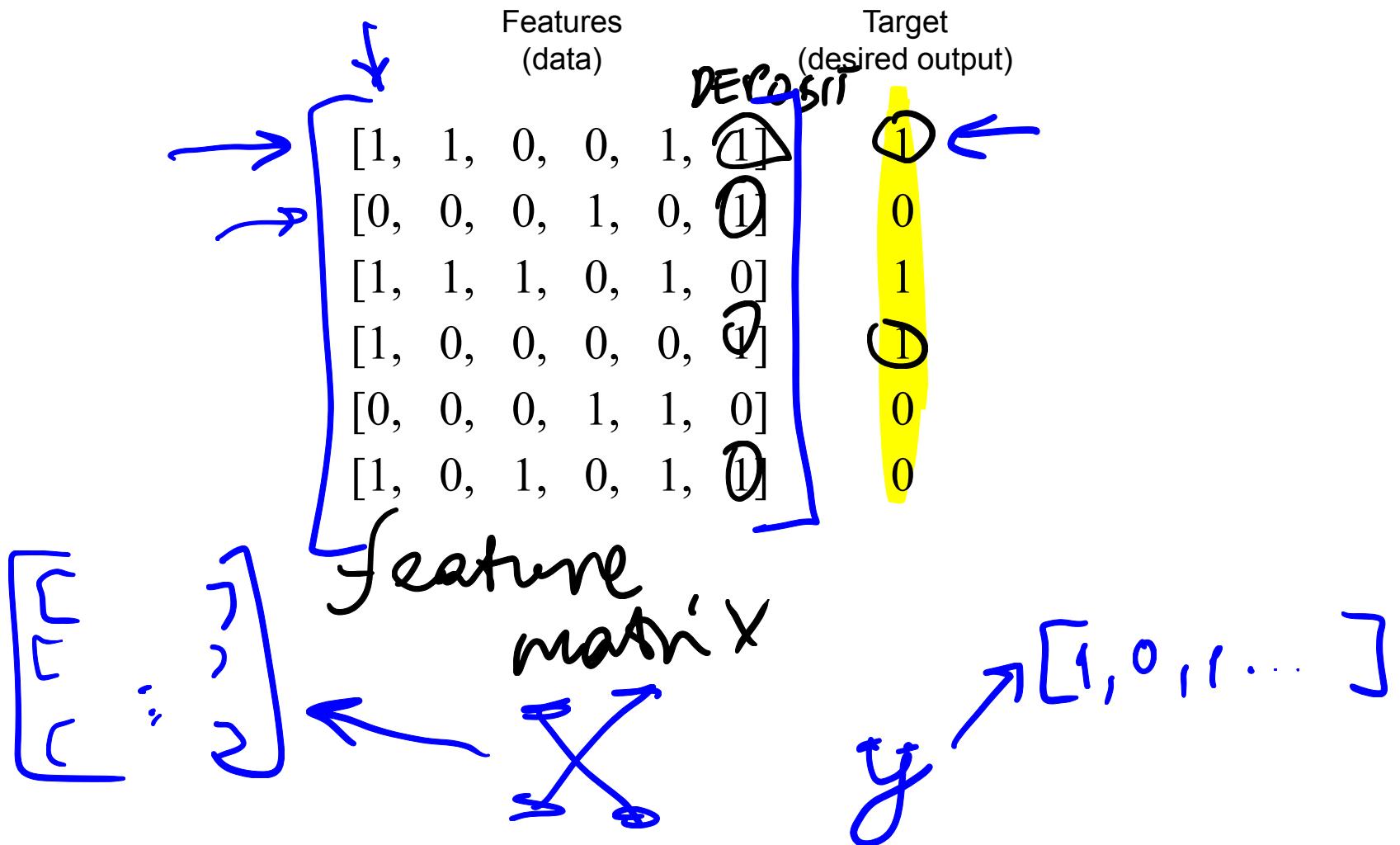
# Supervised Machine Learning

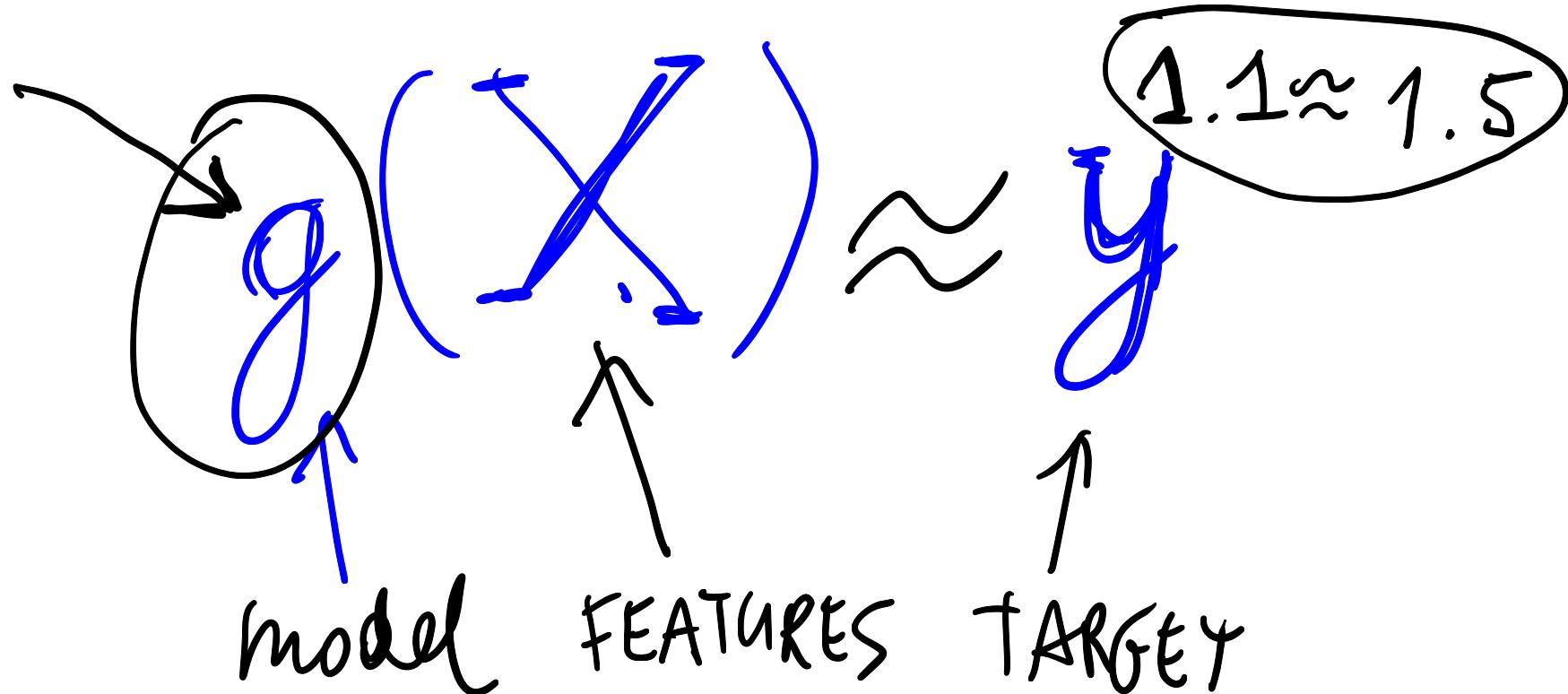


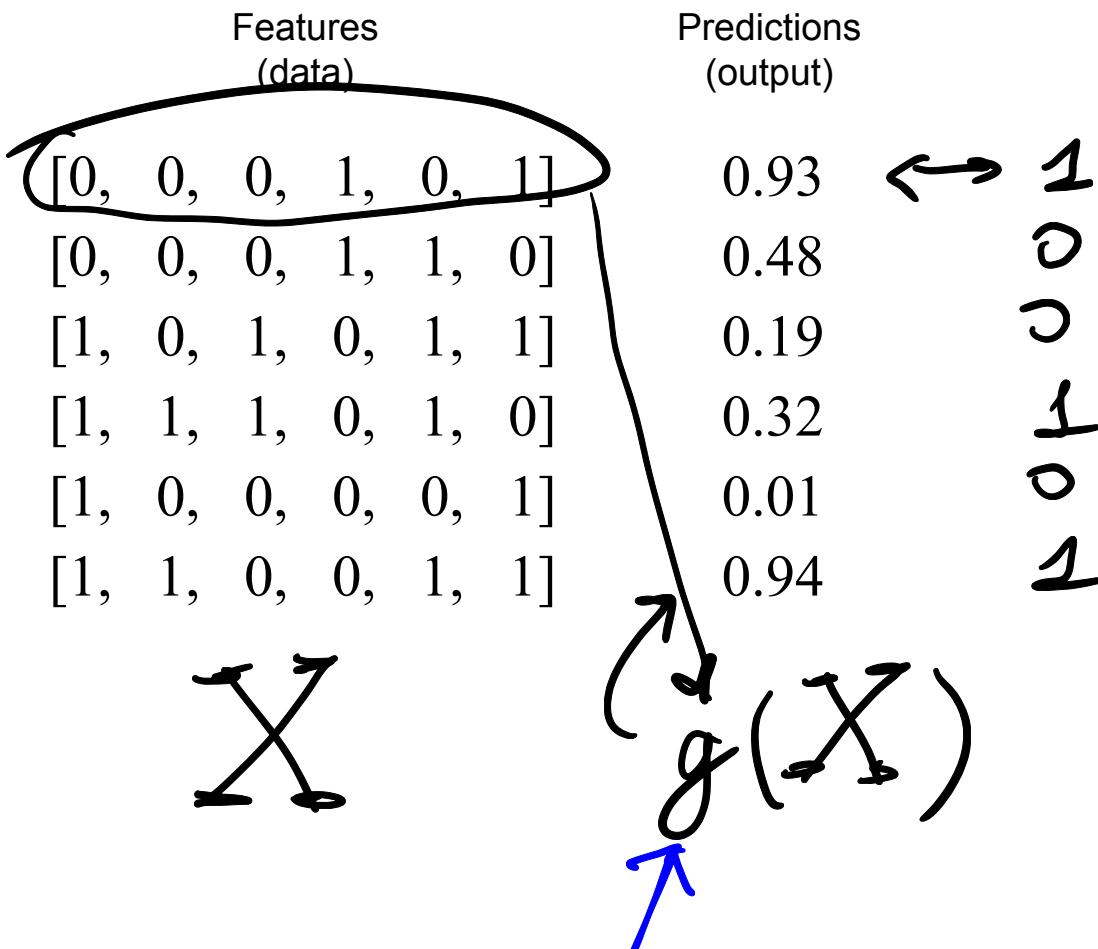
# Supervised Machine Learning

<p><b>Subject:</b> Waiting for your reply <b>From:</b> prince1@test.com</p> <p>We are delighted to inform you that you won 1,000,000 (one million) US Dollars. To claim the prize, you need to pay a small processing fee. Please deposit \$10 to our PayPal account at prince@test.com. Once we receive the money, we will start the transfer.</p> <p>Congratulations again!</p>	spam
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# Supervised Machine Learning

Regression:

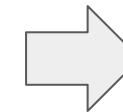


$\hat{y} \rightarrow$   
\$50k  
 $0 - +\infty$

A handwritten diagram illustrating regression. It shows a blue arrow pointing right labeled  $\hat{y} \rightarrow$ , a white arrow pointing right labeled \$50k, and a blue infinity symbol with a minus sign before it and a plus sign after it, labeled  $0 - +\infty$ .

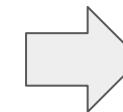
# Supervised Machine Learning

Regression:



\$50k

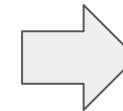
Regression:



\$1m

# Supervised Machine Learning

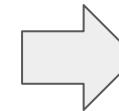
Classification:



car

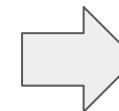
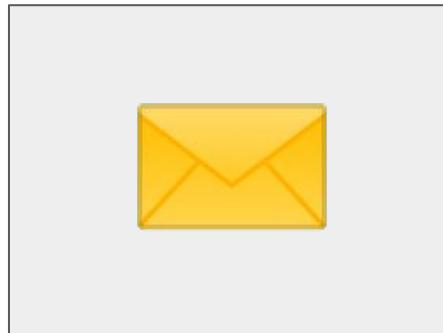
# Supervised Machine Learning

Classification:



car

Classification:

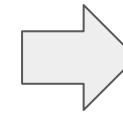


g

spam

# Classification

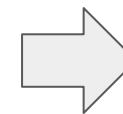
Multiclass:



cat  
dog 10  
car 1000

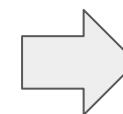
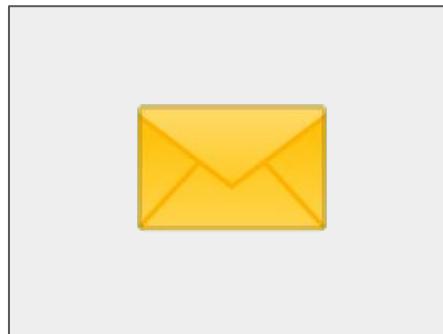
# Classification

Multiclass:



cat  
dog  
car

Binary:



spam 1  
not spam 0  
g 0-1 0

# Ranking

top 6

More recommendations for you [See more](#)



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iphone

X      Cała Polska      + 0 km      Szukaj

Znaleziono 35 404 ogłoszenia



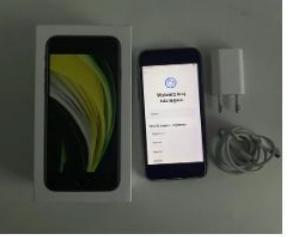
2 sztuki x Kabel Lightning AUKEY 2 m iPhone  
Pszczew . dzisiaj 12:14  
**45 zł**



Iphone 6s 16gb polecam  
Gdańsk, Młyniska . dzisiaj 12:14  
**399 zł**



iPhone 6 srebrny 64 GB w bardzo dobrym stanie  
Wólka Radzymińska . dzisiaj 12:14  
**470 zł**



iPhone SE 2020 64GB ładny, zadbane  
Poznań, Junikowo - dzisiaj 12:14  
**1 000 zł**



Okażja iPhone 8 64 GB  
Olsztyn . dzisiaj 12:14



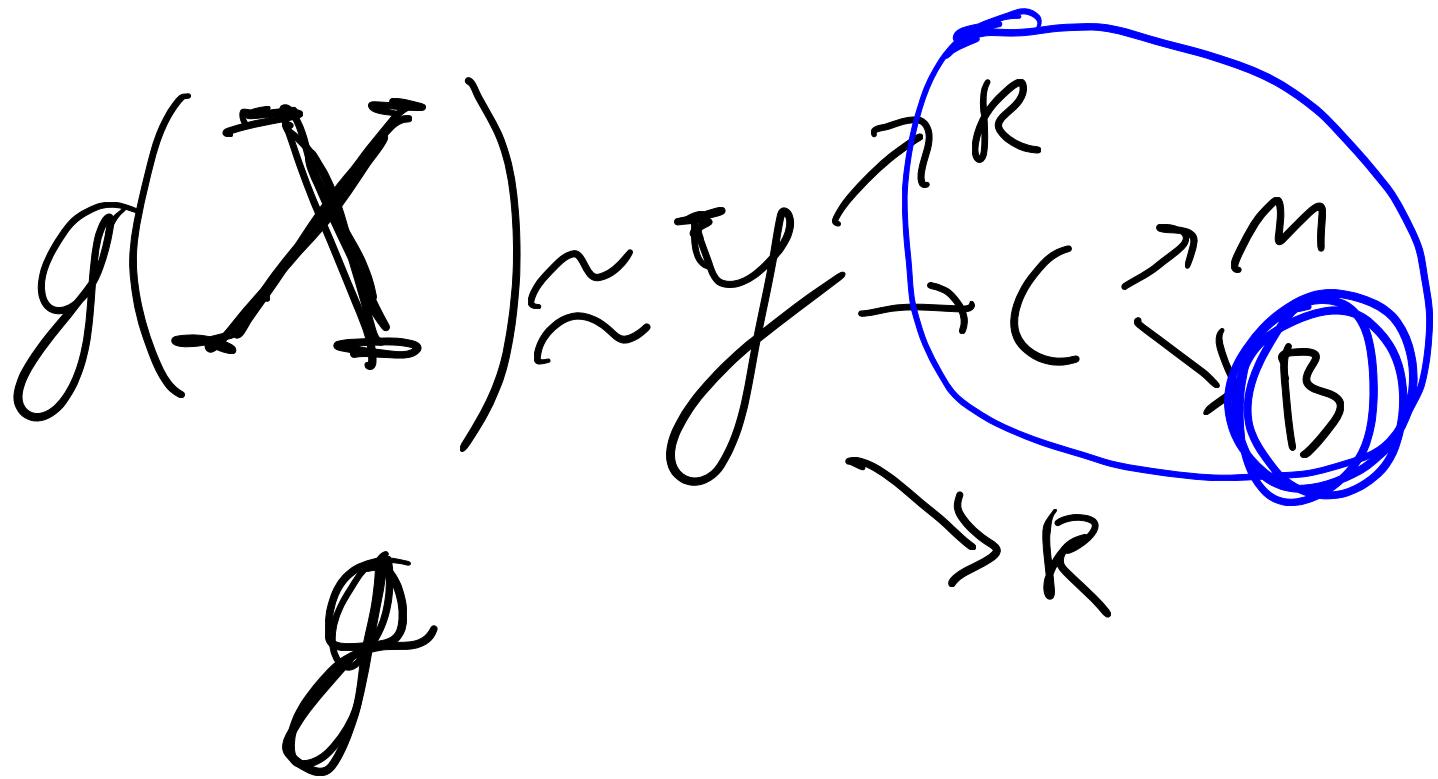
Etui , Pokrowiec Case iPhone 6 + Plus / 6S Plus Henri Bendel New York  
Przeworsk . dzisiaj 12:14



iPhone 8 64gb silver  
Wejherowo . dzisiaj 12:13



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Orange PLAY plus T.  
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Rzeszów . dzisiaj 12:13



# Next

Process: CRISP-DM