

MLPR Lecture 1

tinyurl.com /edmlpr

Lots of information here

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In lectures:

- Ask questions
- Point out mistakes

Outside class:

please let us pack up and leave

- outside after lectures

- ML-Base

Please sign up and try it

- hypothesis

(See website.)

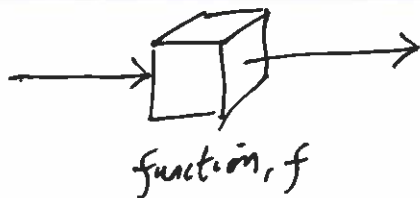
- email

Cartoon view of Machine Learning

Image
(pixels)

\underline{x}

\times or \overleftarrow{x}



Location of
a face



Observed output

$$y = [a, b, w, h]^T$$

$$= \begin{bmatrix} a \\ b \\ w \\ h \end{bmatrix}$$

Email/text
 \underline{x}



Label $f(\underline{x}) \in \{spam, ok, phishing\}$

Write f by hand?

If "Ray-Ban" in \underline{x} : spam + = 10

If "IT Help Desk" in \underline{x} : phishing + = 100

If "Bayesian" in \underline{x} : ok + = 10^6

Parameters θ or w "weights"

Prediction = $\operatorname{argmax}(spam, phishing, ok)$

[See typeset notes for more, and links to papers.]