MLPR Lecture 1

tinyurl.com/edmlpr
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In lectures:
- Ask questions
- Point out mistakes

Outside class:
- outside after lectures
- ML-Base Please sign up and try it (See website.)
- hypothesis
- email

Lots of information here
Cartoon view of Machine Learning

Image (pixels) $\rightarrow f(x)$ $\rightarrow$ Location of a face

Observed output $\mathbf{y} = [a, b, w, h]^T$

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

Email/text $\rightarrow$ Label $f(x) \in \text{spam, ok, phishing}$

Write $f$ by hand?

If "Ray-Ban" in $x$: spam + = 10
If "IT Help Desk" in $x$: phishing + = 100
If "Bayesian" in $x$: ok + = 10^6

Parameters $\theta$ or $w$ "weights"

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

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