



deeplearning.ai

Setting up your ML application

Train/dev/test sets

Applied ML is a highly iterative process

layers

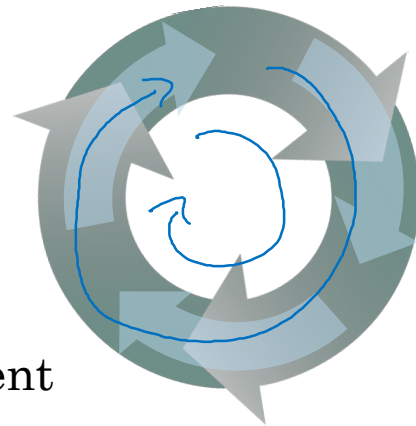
hidden units

learning rates

activation functions

• • •

Idea



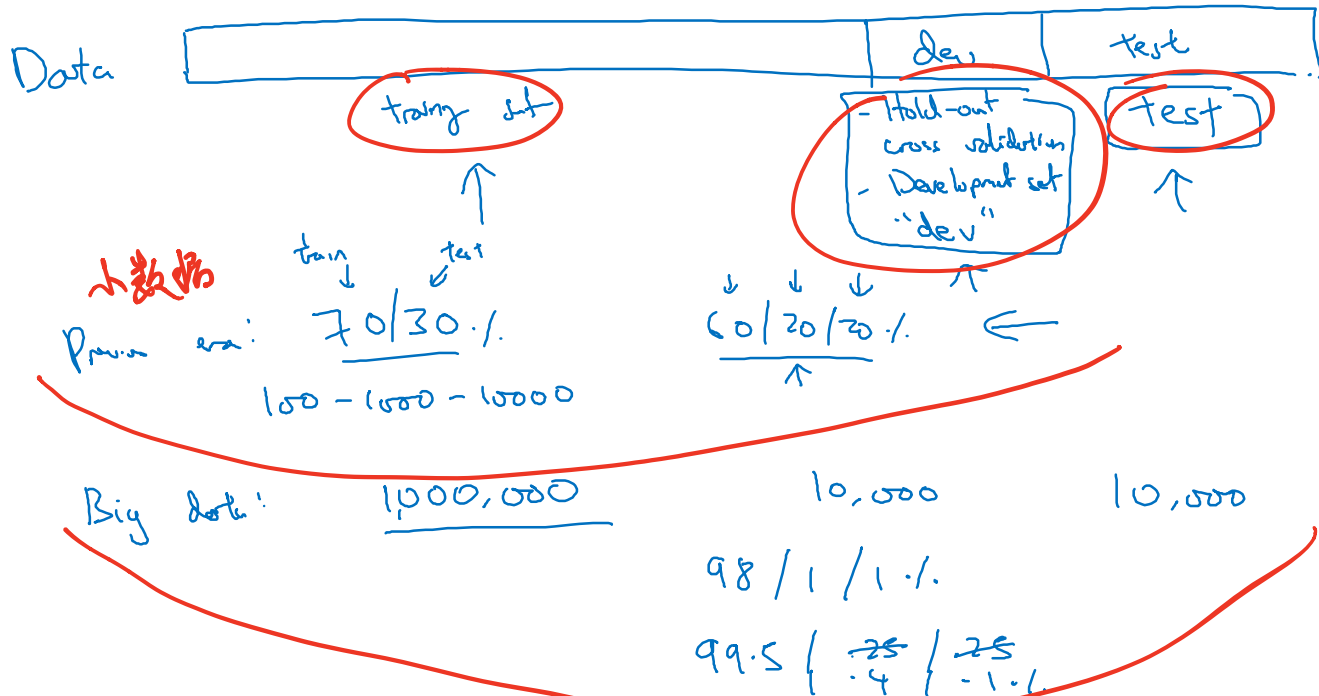
Experiment

Code

NLP, Vision, Speech, Structured Data

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Ads Search Security Logistics ...

Train/dev/test sets



Mismatched train/test distribution

Certs

↓
Training set:
Cat pictures from
webpages }

↓ ↓
Dev/test sets:
Cat pictures from
users using your app }

→ Make sure dev and test come from same distribution.

↓ ↓
train / dev "test"

train / test
↓ ↗
→ train / dev

(Not having a test set might be okay. (Only dev set.))