



deeplearning.ai

Setting up your ML application

Train/dev/test sets

Applied ML is a highly iterative process

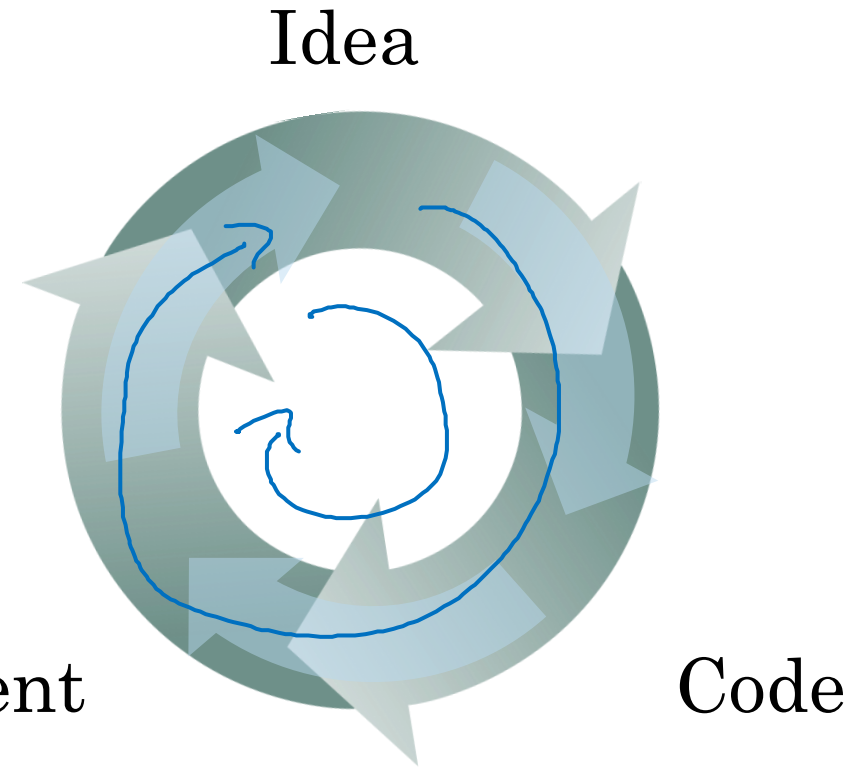
layers

hidden units

learning rates

activation functions

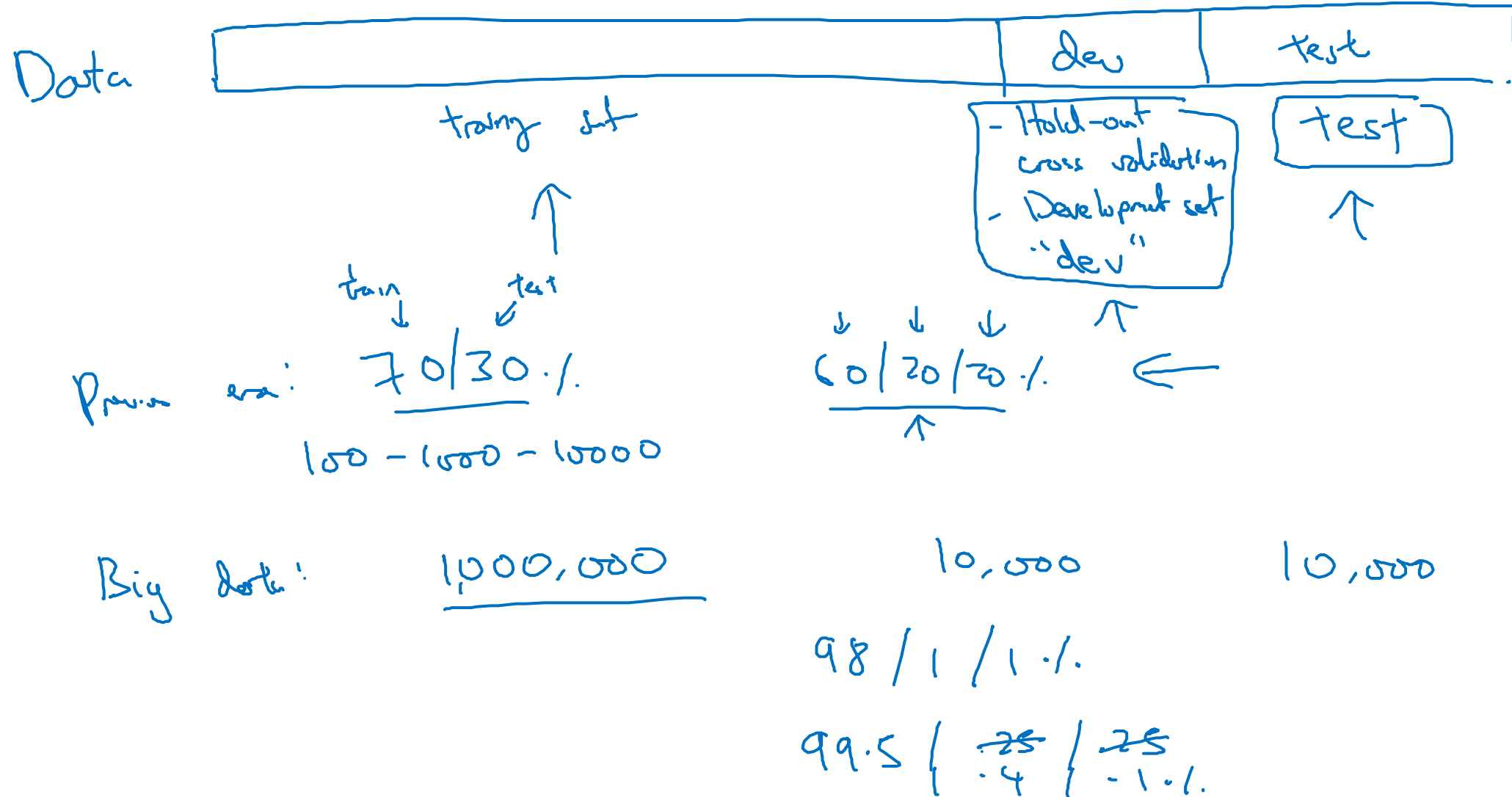
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NLP, Vision, Speech, Structural Data

The diagram shows four main categories at the top: NLP, Vision, Speech, and Structural Data. A bracket under NLP and Vision points upwards towards them. Below Speech, there are three sub-categories: Ads, Search, and Security. A bracket under Ads and Search points upwards towards them. Below Security, there is a sub-category: Logistic A bracket under Security and Logistic ... points upwards towards them.

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.)