

deeplearning.ai

Mismatched training and dev/test data

Addressing data mismatch

You've done your "From Analysis" & see most of it is because of data mismatch ie, dist (Train) \$\neq\$ dist (dev/Test) So what can we do?

Addressing data mismatch

• Carry out manual error analysis to try to understand difference between training and dev/test sets

eg car Rearview mirror Assistant

one way data differs -> car samples are noisy [car noises in speech samples]

traffic

compared to training data

Ly inside/Engine noise

Ly Honk

• Make training data more similar; or collect more data similar to dev/test sets & put this in training set

Artificial data synthesis







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"The quick brown fox jumps over the lazy dog."

Clean Audio

Car noise

Synthesized in-car audio

Carreat

Gran have 10 K hours of Speech (clean, noiseless speech)

Lyou have I hour of car noise

The you generate all synthesised car Audio speech using

This I hour car noise, Repeated over 10 K hours

this I hour car noise, Repeated over 10 K hours

This I hour car noise, Repeated over 10 K hours

This I hour car noise overfitting on that I hour of car noise

Artificial data synthesis

Car recognition: For self Driving car, You need to Recognize nearby cars







- Synthesize Car Images instead of taking IM pictures of cars on the street, why not?

