



deeplearning.ai

Mismatched training  
and dev/test data

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Addressing data  
mismatch

# Addressing data mismatch

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

E.g. noisy - car noise

street numbers

- • Make training data more similar; or collect more data similar to dev/test sets

E.g. Simulate noisy in-car data

# Artificial data synthesis



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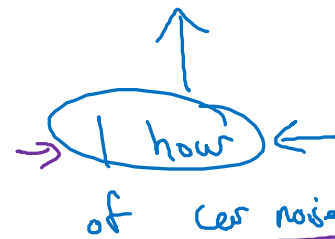
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“The quick brown  
fox jumps  
over the lazy dog.”

↑  
10,000 hours

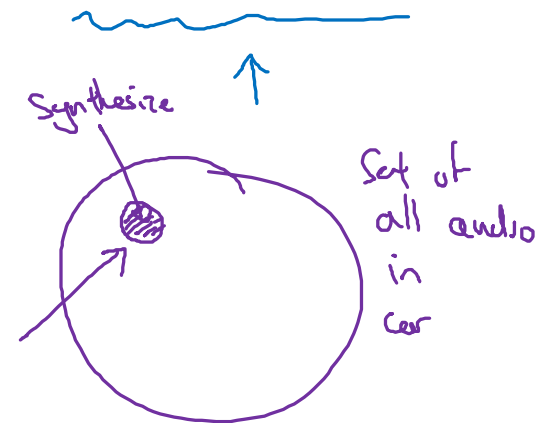
Car noise



Overfit to 1 hour of  
car noise

↑  
10,000 hours

Synthesized  
in-car audio



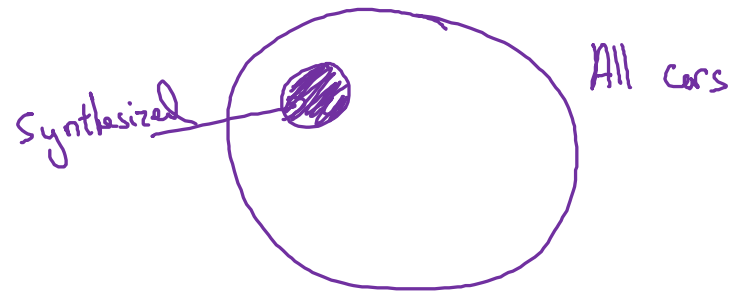
Andrew Ng

# Artificial data synthesis

Car recognition:



$\approx \underline{20}$  cars



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