

Error Analysis

Cleaning up Incorrectly labeled data

Incorrectly labeled examples



DL algorithms are quite robust to <u>random errors</u> in the training set.

Systematic errors

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Error analysis



^	Image	Dog	Great Cat	Blurry	Incorrectly labeled	Comments	
	98				\checkmark	Labeler missed cat in background	\leftarrow
	99		✓				
\downarrow	100				\bigcirc	Drawing of a cat; Not a real cat.	\leftarrow
	% of total	8%	43%	$\underline{61\%}$	6%	V	
Overall dev set error						2%	
Errors due incorrect labels • • • • • • • • • • • • • • • • •						0.6%	
Errors due to other causes 9.4% 1.4%							
				1		2.1./0	1.9./6

Goal of dev set is to help you select between two classifiers A & B.

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Correcting incorrect dev/test set examples

- Apply same process to your dev and test sets to make sure they continue to come from the same distribution
- Consider examining examples your algorithm got right as well as ones it got wrong.
- Train and dev/test data may now come from slightly different distributions.