

Error Analysis

Carrying out error analysis

Look at dev examples to evaluate ideas





If model doesn't perform as well as human, then we can do error Aralysis

- Say 90% arewary is what you have, hope to get 99%.

Solution

Should you try to make your cat classifier do better on dogs? A plus who your Error analysis: => IJ you know it's a dog

Error analysis:

- Get ~100 mislabeled dev set examples.
- Count up how many are dogs.

You can Aim to court # enamples Improve model (out of 100) where to 90.5% = 5/100 = the Image was < a dog, but was At max y you build a // dog classifier Images classified a cat Not worth it !

From your model's predictions, get 100 mislabelled examples, where the model called an actual cat a dog , or an Adual dog a cat

then it's definitely not a cat! = 7 in Accuracy round be cities . x 1 y | 1. 1 maybe NoT would a cities . x 1 y | 1. 1 maybe not find a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. 1 maybe not a cities . x 1 y | 1. - But is it worth the How mich will your Kumans Lps?

Evaluate multiple ideas in parallel last stide container dogs but danified as cats is (50/100)

Ideas for cat detection:

Their would be worth while to build a // dog classifier their would be worth of their green 90 -> 95 //.

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- Fix pictures of dogs being recognized as cats [As discussed last slide]
- Fix great cats (lions, panthers, etc..) being misrecognized (This may be a bigger problem)
 (More Frequent, than the dog
 misclassification)

Improve performance on blurry images

	Image	DOG Problem	Great cat problem	Blury Image	instead?
	` 1				_
10 trogo	2				
120	3				
	•			- Falue ma	
v	% of total	8 %	43%	51% Burry Images	Accord Andrew Ng
				for max 1 h	Andrew Ng