



deeplearning.ai

# Error Analysis

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**Carrying out error  
analysis**

# Look at dev examples to evaluate ideas



90% accuracy  
→ 10% error

Should you try to make your cat classifier do better on dogs? ←

Error analysis:

- Get ~100 mislabeled dev set examples. → 5-10 min
- Count up how many are dogs.

→ 5%  
5/100

10%  
↓  
9.5%

"ceiling"

→ 50%  
50/100

10%  
↓  
5%

# Evaluate multiple ideas in parallel

Ideas for cat detection:

- Fix pictures of dogs being recognized as cats ←
- Fix great cats (lions, panthers, etc..) being misrecognized ←
- Improve performance on blurry images ←

Image	Dog	Great Cats	Blurry	Instagram	Comments
1	✓			✓	Pitbull
2			✓	✓	
3		✓	✓		Rainy day at zoo
⋮	⋮	⋮	⋮	⋮	
% of total	<u>8%</u>	43%	61%	<u>12%</u>	