



deeplearning.ai

Error Analysis

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 ~~cats~~ dogs?

Error analysis: → 5-10 min

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

→ 5%
5/100

10%
↓
9.5%

→ 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~~ed~~
- 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> | <u>43%</u> | <u>61%</u> | <u>12%</u> | |