

CAPSTONE IGNITE TALK

Kyra Ballard

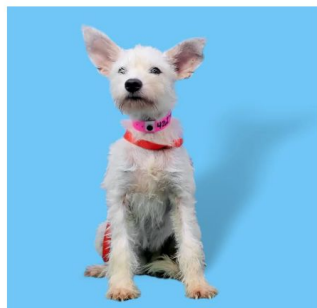
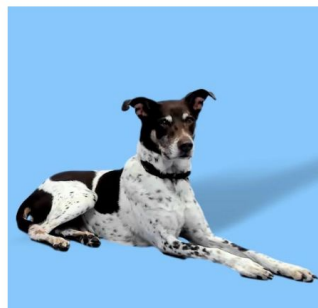
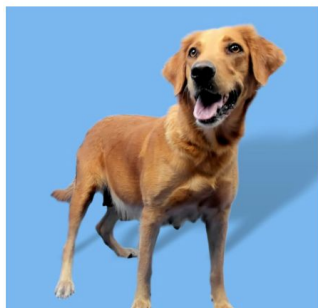
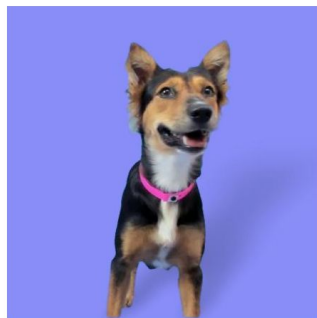
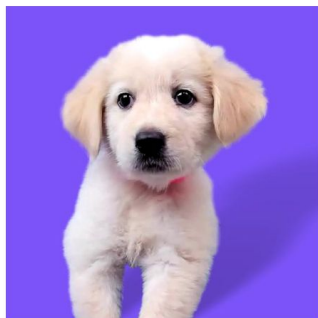
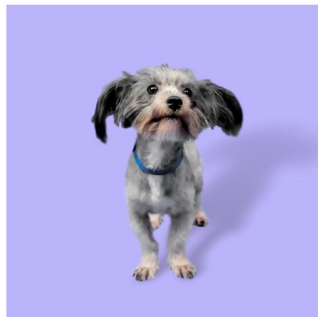
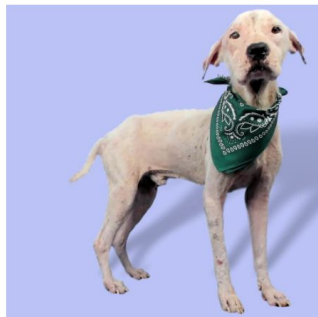
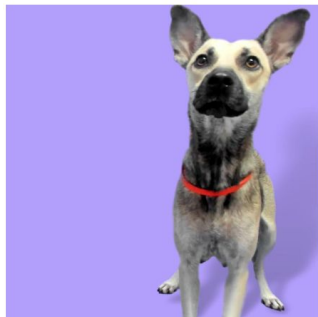
Emily Xie

Shravan Nageswaran

Andrew Fu

Harvard University
IACS, Spring 2020





A black and white photograph of a dog's face, likely a pit bull or similar breed, looking through a chain-link fence. The dog's face is partially obscured by the diamond-shaped mesh of the fence. The image has a somber tone, with a dark grey overlay at the top and bottom. Overlaid on the center of the image is white text in a bold, sans-serif font.

**animals in a shelter who
are not adopted are likely
to be put down**

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ADOPTIMIZE'S IMPACT



124% increase in adoption
41% reduction in euthanasia



27% increase in adoption
56% reduction in euthanasia

THE PROJECT



increase adoption rates and

decrease euthanasia for shelter cats

OVERVIEW

task

`f(Cat Video) = Best Photo`

deliverable

A web app that works
with cameras on mobile
devices

CHALLENGES

Quality issues



Data Issues

Hello
my name is

GOOD PHOTO?

CHALLENGES

Behavioral issues



Ambiguous benchmarks



NEXT STEPS

1. Measuring Performance
2. Existing Methods
3. Bounding-box based CNNs
4. Background Subtraction



NEXT STEPS

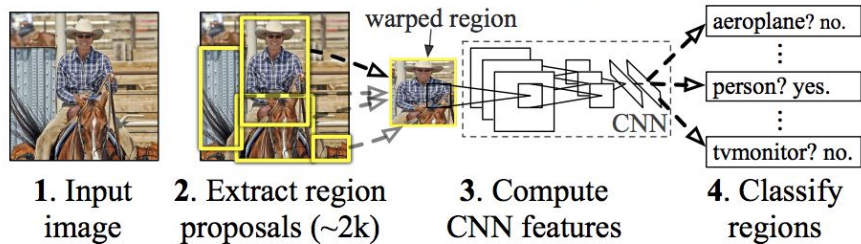
1. Measuring Performance

2. Existing Methods

3. Background Subtraction

4. Region CNNs

R-CNN: *Regions with CNN features*



NEXT STEPS

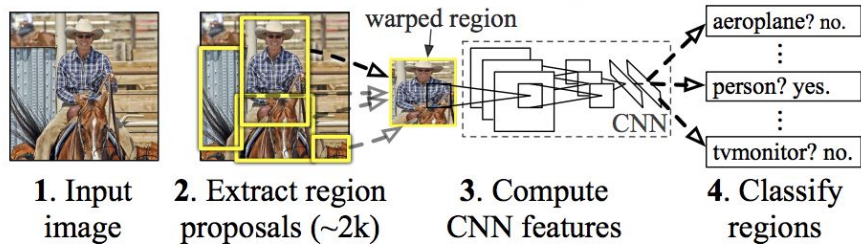
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THANK YOU

Questions?

