



[[fr:Chat]]



[[en:Cat]]



[[fa:گربه]]



[[th:แมว]]



[[ja:ネコ]]



[[d:Q146]]

Cat Breed Identify -From images!

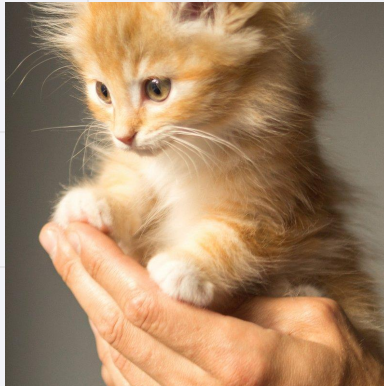
ML Project by
Kimberly M.

What
Problem Do
We Solve?



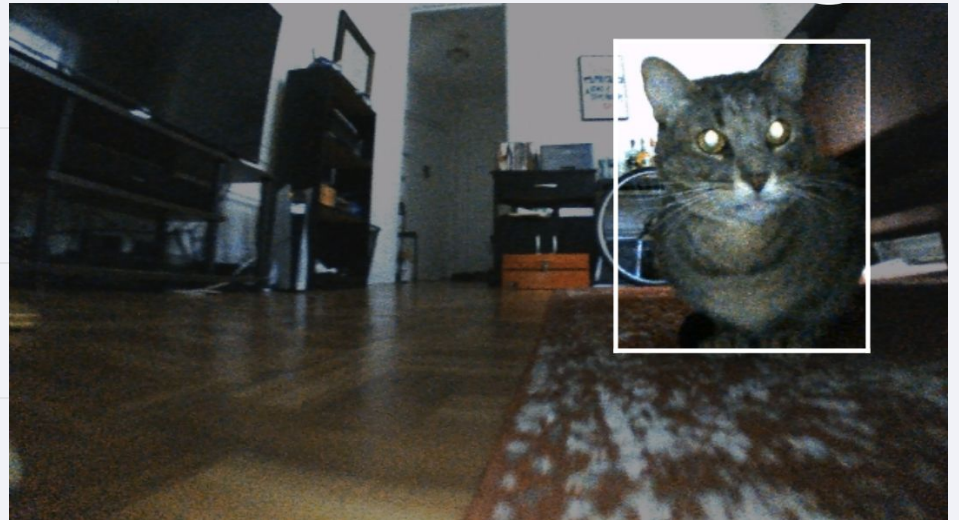
Identification For The Vet

- Accurate breed identification is critical for veterinary diagnosis, genetic counseling, and proper care.
- Many breeds have breed-specific health issues or treatment sensitivities.
- Manual identification by eye is subjective and prone to error.



Solution: Identify from Images

- Build an AI tool to support veterinarians with reliable, fast, breed identification from images.



What is the
ML
approach
used?



Dataset

- Kaggle Cat Breed Dataset: [ma7555](#)
- Picked this dataset due to it having images and being labeled
- Over 80 breeds in this dataset
- Skewed such as american shorthair being common
- Unfortunately jpeg photos corrupt easy
- Lots of processing to remove corrupted photos



Machine Learning Models

- Built deep learning models (CNN-based) to automate cat breed classification.
- Preprocessing:
 - Resized and normalized images for consistency.
 - Applied augmentation (rotations, flips, zooms) to improve generalization.
- Data cleaning to remove corrupted images.
- Early stopping and batch normalization for model stability.

Let's look
at the
results and
Demo!



Thank You!

