**Proposal Group 5: Animal Photo Recognition**

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**Dataset Name**: “Animals-10” and “Zoo Animals Extended”

Links to Dataset: <https://www.kaggle.com/datasets/viratkothari/animal10>

<https://www.kaggle.com/datasets/agajorte/zoo-animals-extended-dataset>

About the Datasets: (1) Contains folders filled with images of 10 different kinds of common animals such as cats, dogs, and cows; (2) contains images of many different animals one would likely encounter in a zoo. Such animals include turtles, lizards, and of course, pythons!

**Proposal**: Design an interactive website which allows users to upload an image of an animal and have our built neural network determine which animal is in the image. The image and a label will be saved to the database for storage and further training if possible.

We would like to pursue this project because we are interested in image recognition, and we feel that animals would be a good starting point in training a model to recognize a large set of possible outcomes.

**Project Requirements intended on using**:

* HTML/CSS/Bootstrap (Interactive website)
* MongoDB Database (Labels + Pictures from users)
* Pandas (Machine Learning Algorithms
* Matplotlib (graphing accuracy of algorithm over time)

