**Team 7**

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**Project Title:** Finding Specific Objectsin a Video withDeep Learning

**Project Summary:** The scope of this project will include training a model to identify if a dog is in a photo or not, and then feed the model a video (a string of photos) to identify if a dog ever appears in the video.

The primary focus of the project will be using the Big Data tools in technology to apply deep learning methodologies.

Note: The initial idea to identify dogs in photos may change to something a different object (like people) if it ends up preventing us from reaching the primary goal of applying a deep learning algorithm using the available big data technologies.

**Data:** The dataset used for training the model will be a combination of two published datasets: a collection of dogs from the dog breed classification dataset on Kaggle (<https://www.kaggle.com/c/dog-breed-identification>) and a collection of images containing objects belonging to 101 categories (<http://www.vision.caltech.edu/Image_Datasets/Caltech101/>)

The two datasets will be appended in order to provide a mix of dog & non-dog images for model-training purposes.

To validate our model’s performance, we will scrape 10 videos (with & without dogs) from YouTube.