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**Pet Adoption Speed Prediction**

Pet rescue websites such as PetFinder have been around for decades and remain a popular method of finding new pets to adopt. We decided to analyze what features of a pet and their respective adoption profiles on PetFinder influenced the speed at which they got adopted. We got our dataset from Kaggle and it contains roughly 8000 observations of 23 variables pertaining to an adoption profile on PetFinder. Our dependent variable is AdoptionSpeed, a variable calculated by the speed at which the animal was (or was not) adopted. The adoption speed variable was given to us as a categorical variable, with each level corresponding to a bucket of a range of values. We transformed these buckets so that we could have a numerical dependent variable, one of the prerequisites for linear modelling.  
  
The SMART Questions we plan to answer are:  
- Do dogs get adopted faster than cats?  
- What categorical variables influence adoption speed?  
- What numerical variables influence adoption speed?  
- What combination of categorical and numerical variables result in the best predictive model?  
   
Our data set can be found here:  
Data: https://www.kaggle.com/c/petfinder-adoption-prediction/data  
  
Our github repo can be found here:  
Github: https://github.com/alexiskaldany/data\_torture