



# **PetFinder.my**

## **Adoption Speed Prediction**



## The goal

**Given data on pets put up for adoption on PetFinder.my, predict how quickly a pet will be adopted.**



# Variables

Breed	Age	Color	Name	Description
Photos	Videos	Maturity Size	Vaccinated	Fee
Health	State	Fur Length	Gender	Quantity



# Target - Adoption Speed

0 - Adopted on the same day as listed

1 - Adopted between 1 and 7 days

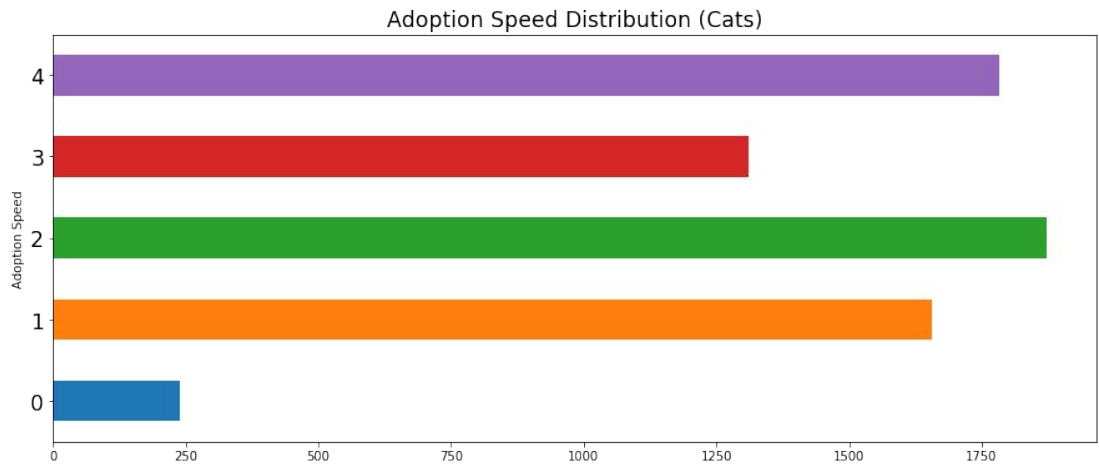
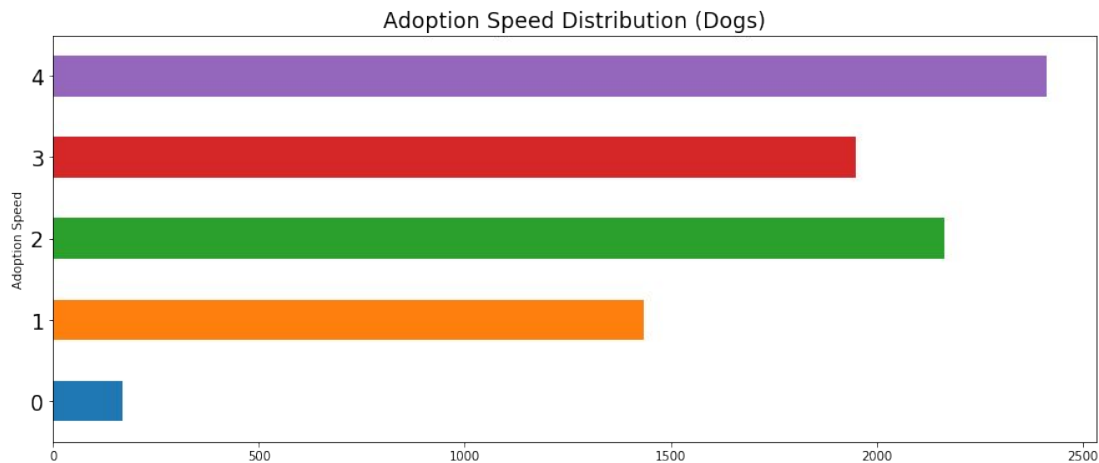
2 - Adopted between 8 and 30 days

3 - Adopted between 31 and 90 days

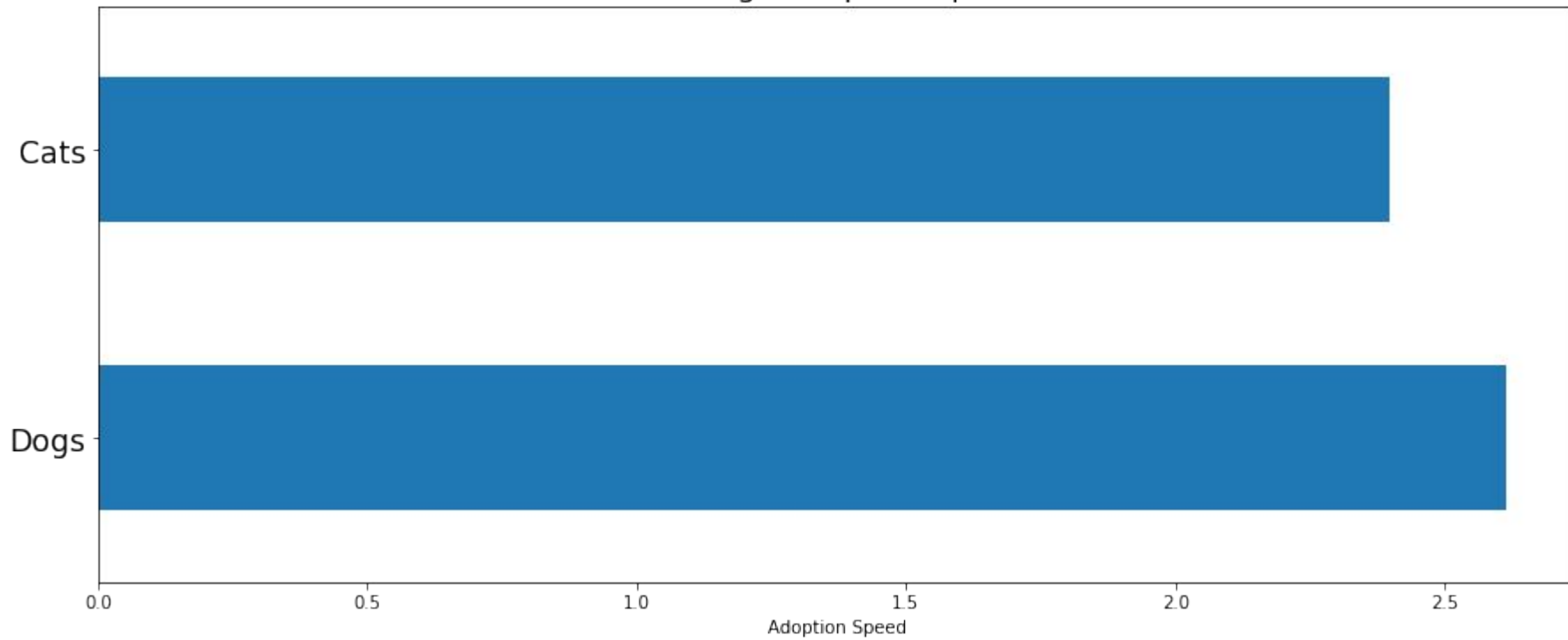
4 - No adoption after 100 days



# Adoption Speed Distribution



Average Adoption Speed



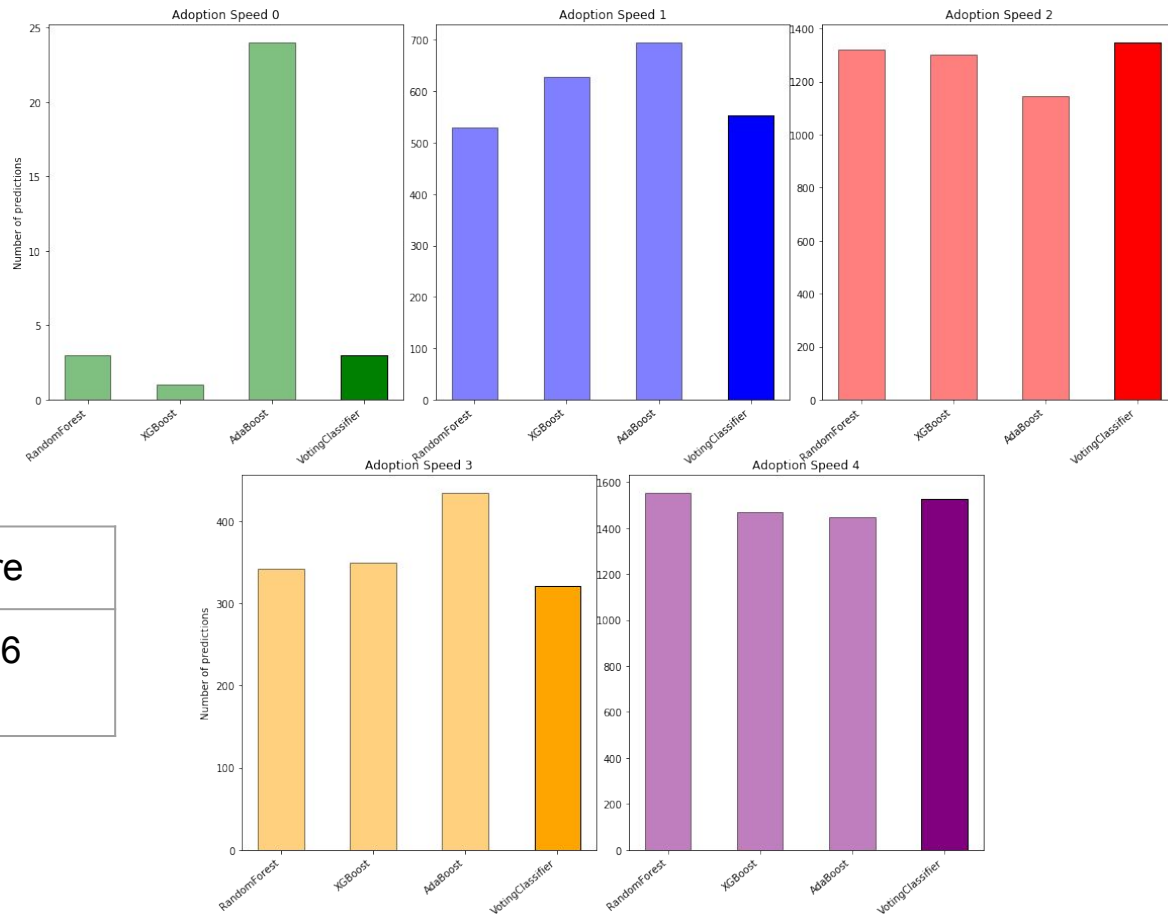


# Training

Method	Baseline Score*	Tuned Score*
Random Forest	0.293	0.358
XGBoost	0.369	0.383
Adaboost	0.330	0.347



# Ensemble



Method	Score
Voting Classifier*	0.386





**Final model performance\***

Score	<b>0.333</b>
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# Future improvements

- 1) Improve predictions of Adoption Speed 0
- 2) Testing inclusion/exclusion of certain variables
- 3) Deeper exploration of photos and descriptions