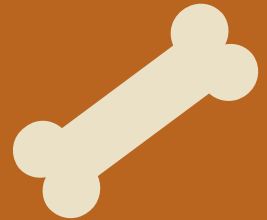




Good Dogs

Finding a way
home



A decorative border consisting of numerous brown bone-shaped icons scattered along the top and bottom edges of the slide.

Welcome

future dog parents

Our Litter



Gene
Woodstock



Nate
Cox

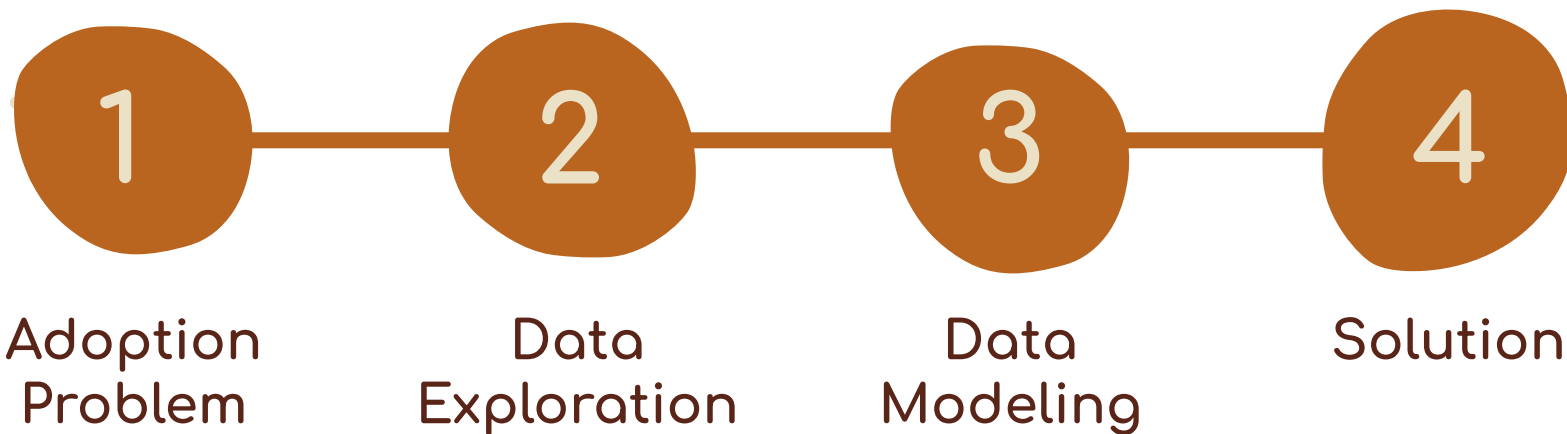


Anna
Rutledge



Elena
Yakubchik

Let's go for a walk



A Bark for Help



Austin Animal Center has a no kill policy.

Their goal is to find homes for all adoptable animals.

On Feb 10th the Center announced they are nearing capacity and asked for help from the community...

Problem Statement

Some dogs experience extremely long adoption wait times. Shelters are struggling to take in the growing number of stray dogs.





Data Sets

1

Austin Animal
Shelter

- 8 years
- 11,000 dogs
- +100 breeds
- Adoption outcomes

- Prof. Stanley Coren
- University British Columbia
- +100 breeds ranked based on obedience

Data Sets

2

The
Intelligence of
Dogs (1994)

3

PetFinder.com



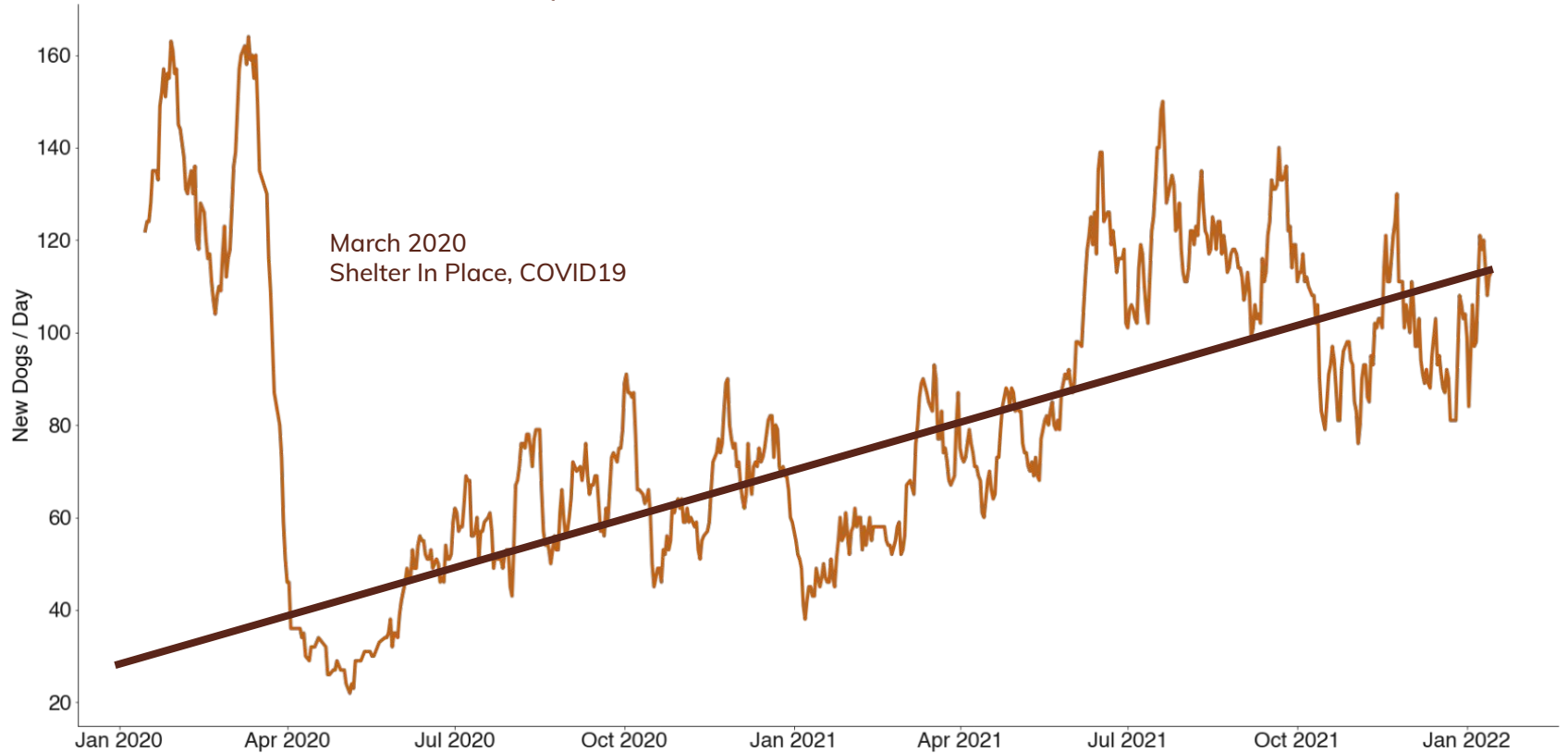
Data Sets

- Web API
- 70,000 adoptable dogs
- +100 breeds
- Located all around the country

3

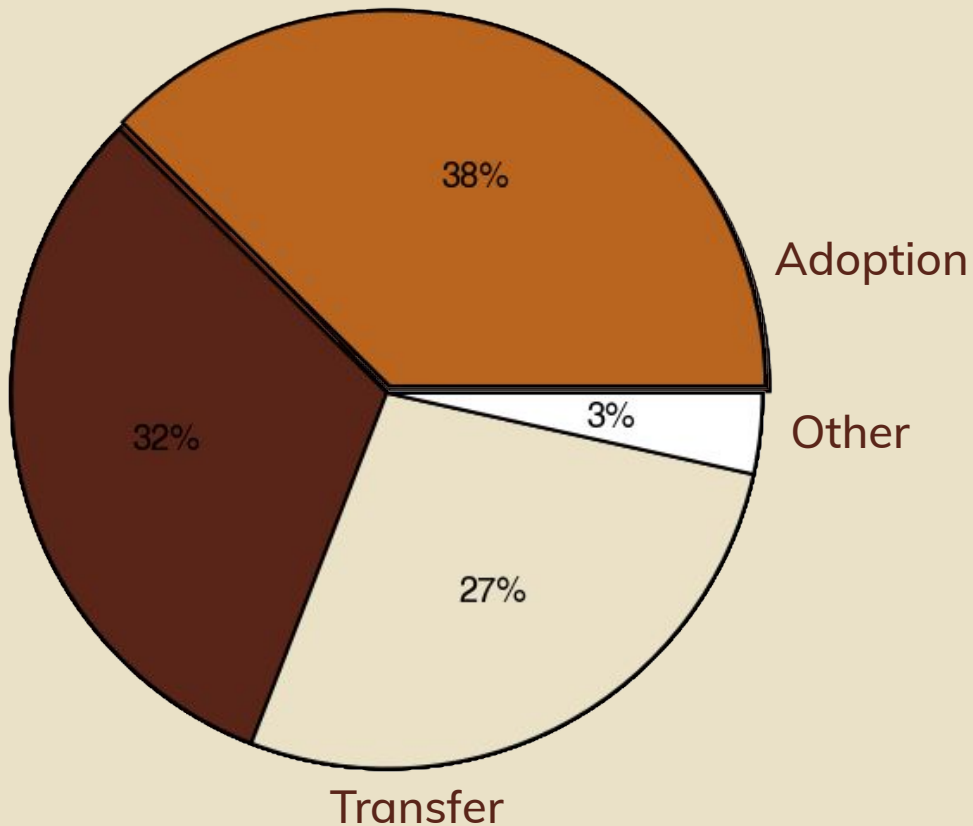
PetFinder.com

Daily Shelter Arrivals



*2 week rolling avg.

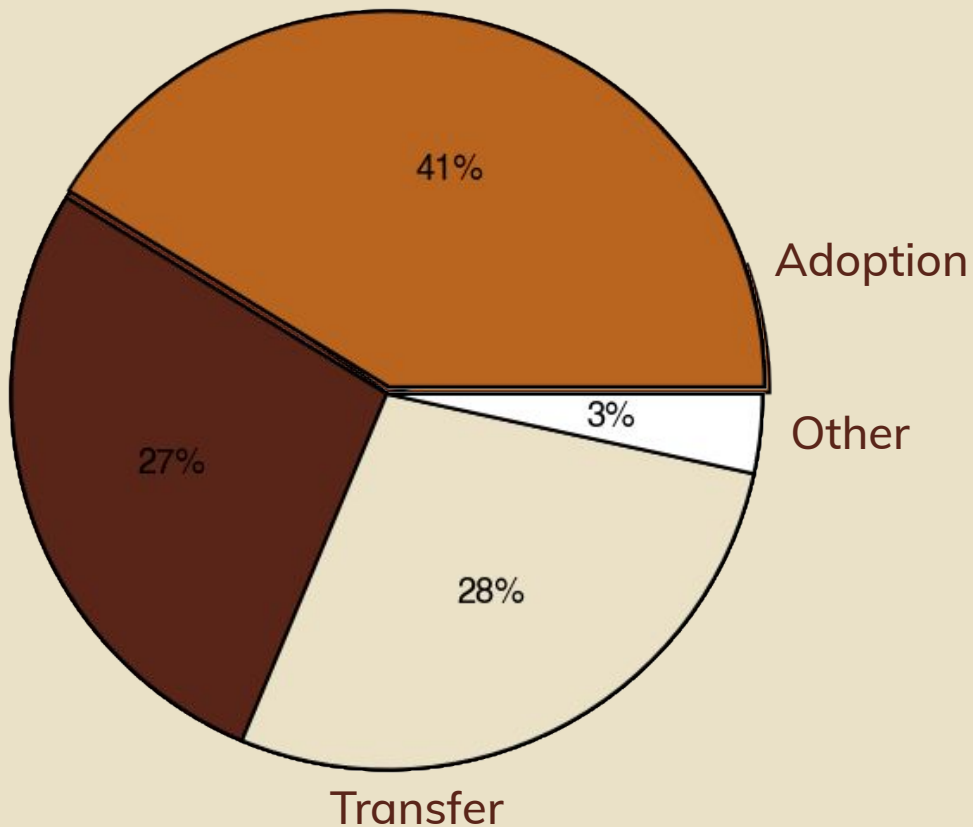
Shelter Outcomes



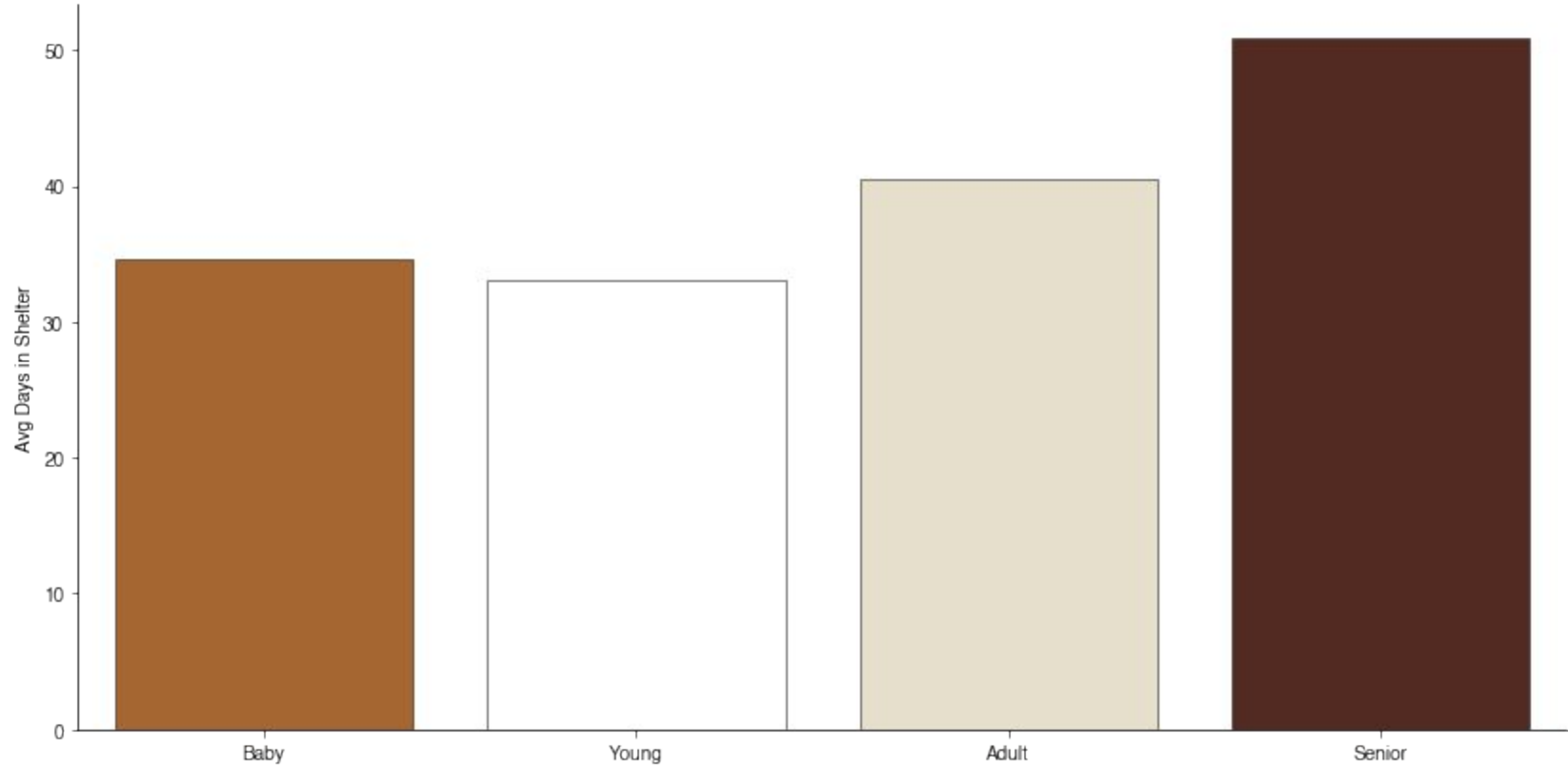
8 days

Shelter Outcomes

30 days



Time in Shelter by Age



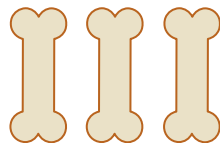
Models



Baseline



Neural
Net



XGBoost



Random
Forest



Target

Identifying Dogs at Risk
(more than 20 days in a Shelter)

Features

Condition

Age

Breed

Results

Models	Accuracy
Baseline	54%
Neural Net	64%
XGBoost	64%
Random Forest	63%

Our Solution

Web app to connect future dog
parents to at risk dogs





Application

Good Dogs app

Dashboard

Limitations

- Finding Signal
 - Intelligence not predictive
 - Limited data crossover for Shelter & PetFinder
- Inconsistent & Missing Data
 - Intake & Outcome Shelter data misaligned
- Historical data unavailable from PetFinder

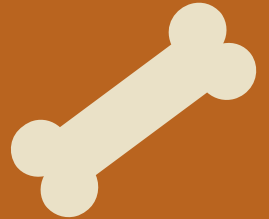
Next Steps

- Model Improvement
 - Voting ensemble
- More Data
 - Daily PetFinder data
 - Data from more shelters
- Design
 - More app features
- Go International
 - Dogs around the world!!



Conclusions

Our app can help Austin Animal Center and shelters all around the country increase exposure of dogs at risk of experiencing long adoption wait times.



Woof !

Questions?

Ready to Adopt??

