# Waupaca Humane Spay and Neuter Analysis

Presented By: Karganleh Borh, Alex Mitchell, Carolyn Shaffer, and Jeff Sischo

## **Overview**

The purpose of this project is to analyze data from the Waupaca Humane society. The analysis will support a grant request for Spaying and Neutering free roaming cats and pets of low income families.

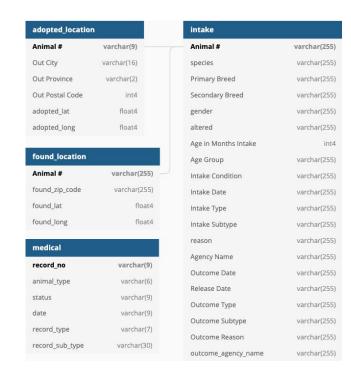
- General informations and trends
- Spay and neuter analysis
- Spay and neuter predictions

## **Every Row is a Wet Nose**



#### Data

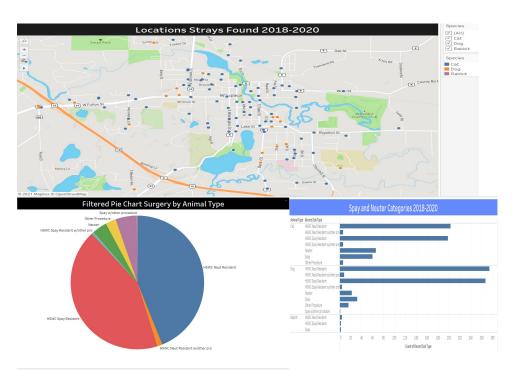
- Provided with 6 csv files including medical and intake data over a time span of 3 years
- Preformed preliminary cleaning and data organization in excel
- Performed additional data cleansing with Python to insure data met our model and dashboards needs
- Designed relational base
- Created database to store data hosted on Amazon RDS
- Connected database to machine learning model



Waupaca Humane Serves the Community's Animal Population

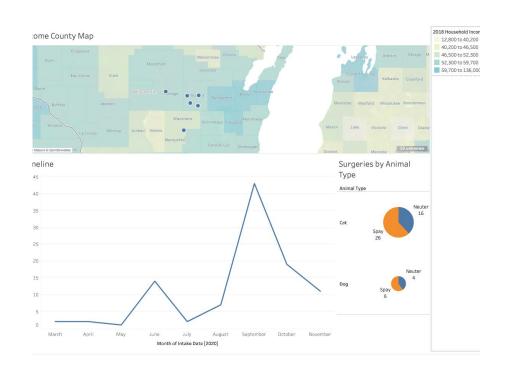
## General Background Information Dashboard

- Map of areas served by the Waupaca Humane Society
- Breakdown of intake types by species



## Spay and Neuter Dashboards

- Map of Waupaca
   Humane Society Clinic
   patient with income level
   overly
- Percentage of surgeries performed by species
- Surgeries performed overtime



Waupaca Humane seeks funding to continue Spay and Neuter Services to Low Income families and Free Roaming Cats

## **Arima Model Slides**

analyzes and forecasts time series data (Surgeries form 2018-2020)



