Animal Shelter Analysis

PROJECT PROPOSAL

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Abstract — **The project focuses on the exploratory data analysis of animal intakes of Austin animal shelter, USA. The dataset is available on the government website of Texas. The data from the dataset goes through various data wrangling techniques and is then visualized using plotting techniques to draw inferences from the data.**

I. INTRODUCTION

Austin Animal Centre is the largest no-kill animal shelter funded by the government of Texas to protect the stray, lost, abandoned, and unwanted animals in the county of Austin and Travis. The facility protects over 18,000 animals, mainly cats and dogs.

Data is a powerful tool and can be used to tackle any problems in any domain. This is the true vision of the project, and the love for animals is the main motivation to undertake this project. We also aim to contribute towards the rehabilitation of these animals in the facility through data.

II. ABOUT DATASET

We are taking this Austin Animal Centre dataset from Kaggle, which gives the animal center intakes from Oct 1, 2013, to Mar 3, 2021. It is extracted from the government website of Austin. It has over 100,000 records of data which covers details such as Animal name, Date, and location where the animal was found, type of intake, whether it is stray, wildlife, etc., condition of the animal during intake, and general features of animal such as type, sex, age, and breed.

III. ANALYSIS

We will be doing various exploratory data analysis methods to get insights based on the Austin animal center intake dataset. We will use multiple visualization techniques to determine the typical age and locations where most adoptions occur. We will determine the common species of animals that are getting lost and adopted. Also, we will be using geospatial techniques to visualize the locations where most animals could be found. This helps identify the chances of animals getting lost and helps prepare rescuers to find them immediately. We will use data wrangling techniques to eliminate null values and duplicate entries before analysis. Our primary objective is to find out the type of animals that are getting lost each month for helping the rescuers.

IV. TEAM MEMBER RESPONSIBILITIES

Name	Task	ETA
Anto Francis	Data Exploration and cleaning	Apr 8th, 2023
Omer Volkan	Creating questions on the dataset	Apr 10th, 2023
Rupesh Chandran	Identifying the visualization techniques and implementation	Apr 15th, 2023
Sachin Sreekumar	Implementing Visualization and finding answers	Apr 20th, 2023

V. REFERENCES

[1] Austin Animal Center. Austin Animal Center |
AustinTexas.gov. (2022, April 9). Retrieved April 3,
2022, from https://www.austintexas.gov/austin-animal-
center