

DAS2021-Group-19

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1 Introduction

1.1 Dataset 19

Dataset 19 comes from the Dallas animal shelter. You will have access to the following variables, recorded by animal admission:

- **Animal_type** – The type of animal admitted to the shelter
- **Month** – Month the animal was admitted, recorded numerically with January=1
- **Year** – Year the animal was admitted to the shelter.
- **Intake_type** – Reason for the animal being admitted to the shelter
- **Outcome_type** – Final outcome for the admitted animal
- **Chip_Status** – Did the animal have a microchip with owner information?
- **Time_at_Shelter** – Days spent at the shelter between being admitted and the final outcome.

1.2 Task

Imagine you have been asked by the shelter management to investigate the following questions of interest:

- Which factors influence the number of days an animal spends in the shelter before their final outcome is decided?

You should conduct an analysis to answer your question using a Generalised Linear Model (GLM). Following your analyses, you should then summarise your results in the form of a presentation.

2 Exploratory Data Analysis

3 Formal Data Analysis

4 Conclusions