## **Handling Strategies**

Handling Strategy	Data Quality Issue	Feature
Keep to be able to link example to actual animal, but do not use for data preparation	Unique identifier not to be used as feature in data preparation	AnimalID (object)
Change it so that it has two values - 'No' to represent a missing value and 'Yes' to show that a name was provided.	Missing Values (30.6%)	Name_Intake (category)
Revert switched features for failing instances.	Some dates failed logical integrity tests.	DateTime_Intake (datetime64[ns])
Represent found location using only the city.	High cardinality (766)	FoundLocation (category)
Keep as is	None	IntakeType (category)
Impute to mode.	Ambiguous value 'Other'	IntakeCondition (category)
Further divide up this value by creating a "Bat" value.	Ambiguous value 'Other'	AnimalType_Intake (category)
Keep as is	None	SexuponIntake (category)
Convert into days. Leave potential outliers as they are.	Not in a useful numeric format. Potential outliers	AgeuponIntake (category)
Divide all values into 'Mixed Breed' and 'Pure Breed'	High cardinality (211)	Breed_Intake (category)
Divide all values into 'Dark' and 'Light'	High cardinality (115)	Color_Intake (category)
Revert switched features for failing instances.	Some dates failed logical integrity tests.	DateTime_Outcome (datetime64[ns])
Keep as is	None	DateofBirth (datetime64[ns])
Keep as is	None	SexuponOutcome (category)
Convert into days. Leave potential outliers as they are.	Not in a useful numeric format. Potential outliers	AgeuponOutcome (category)
Keep as is	None	binary_outcome (category)

## **Descriptive Statistics for cleaned categorical features**

	count	unique	top	freq
Name_Provided	1000	2	Yes	694
FoundLocation	1000	14	Austin (TX)	820
IntakeType	1000	5	Stray	708
IntakeCondition	1000	4	Normal	892
AnimalType_Intake	1000	5	Dog	563
SexuponIntake	1000	5	Intact Male	332
Breed_Intake	1000	2	Mixed Breed	760
Color_Intake	1000	2	Dark	533
SexuponOutcome	1000	5	Neutered Male	346
binary_outcome	1000	2	0	920

## **Descriptive Statistics for cleaned continuous features**

	count	mean	std	min	25%	50%	75%	max
AgeuponIntake	1000.0	759.812	1116.589203	0.0	68.00	365.0	765.25	7305.0
AgeuponOutcome	1000.0	781.955	1124.826147	0.0	86.75	367.0	808.25	7306.0