**Analysis Planning Worksheet**

**Evaluation Question**

How do euthanasia rates differ between my state and the national average?

Was there an increase in adoptions/decrease in euthanasia when COVID started?

**Independent Variable(s)**

These variable(s) are causing something or creating an effect. List what each is and whether it is categorical or continuous. It is ok to only have one.

**Variable**

Animal intakes at city and county animal shelters

□ Categorical: # of levels \_\_5\_\_\_ □ Continuous

**Variable**

Canine or feline

□ Categorical : # of levels \_\_2\_\_\_ □ Continuous

**Variable**

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

Variable

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

Dependent Variable(s)

These variable(s) are influenced by your independent variable and *depend* on them. List what each is and whether it is categorical or continuous. Unless they are related, you should have only one.

**Variable**

Live outcomes

□ Categorical: # of levels \_\_5\_\_\_ □ Continuous

**Variable**

Euthanasias

□ Categorical: # of levels \_\_2\_\_\_ □ Continuous

**Variable**

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

Variable

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

Now that you know the type and number of independent and dependent variables, you are ready to use the analysis flow charts to choose your analysis!

**Analysis:**

R – Mean, Standard Deviation, Range, Dependent t-Test, Stepwise and Multiple Linear Regression, Discriminant Function Analysis

Python – Machine Learning to Predict Outcomes: Structural Equation Modeling, Pearson Correlation