Report Title\*

(COMP3125 Individual Project)

\*Note: Do not used sub-title

Given Name Surname   
*dept. name of organization*

*Abstract*—This project is a look into human environmental interaction and examining the impact we have on various animal species. The data selected for this analysis covers many species and their conservation status, and several quantifiable human impacts such as air quality index and deforestation.

Keywords—example1, example2, example3, example 4, example 5 (provide 3-5 keywords)

# Introduction (*Heading 1*)

Animal Extinction is a telltale sign of human activity. As we have travelled around the earth, some of the sensitive ecological systems that have existed unrelated to us, are not able to handle our influence. Whether it be our direct influence in harming the environment, or the resource demands needed for our society, many animal species become endangered or go extinct due to these factors. For my topic, I would like to investigate how much of in impact we play on the threated species of today. It is important to keep track of things like this because we often forget that we are apart of the same environmental system that all of these animals are a part of. If these system were to weaken, there are many unforeseen circumstances that may arise.

# Datasets

## Source of dataset (Heading 2)

My Data was mainly acquired from Kaggle compiled from organizations. As I was adjusting my datasets for this project, the Wentworth login for Statista was unavailable for some reason. The dataset with all of the species and conservation status was generated by an individual from WWF information. I added the country of origin section for each of these species to monitor if pollution rates influence population declines The deforestation data was compiled from \_\_\_\_. It contains the percent land forest coverage of each country in 2000 and again in 2020, as well as the trend between the two. The air quality dataset is compiled from \_\_\_ and contains various air quality data for many countries and towns/cities. I used only the AQI value to represent air pollution status. I did a mean of the data for cities in the same country and created average AQI’s for each country to line up better with the other dataset.

The WWF species dataset came in 4 columns with 97 different species. It contains an ID column, scientific name, common name, and conservation status. I am focused on noting the more threatened species to show which locations have more threatened species. In order to make sure this dataset could be compared to the others, I added a country of origin to this dataset to compare which countries have more endangered species.

The deforestation dataset contains the countries 3 letter abbreviation, % land use that is forests in 2000, and the same for 2020. There us also a trend column to represent the difference between the two entries.

The air quality dataset comes in with a lot of detail. It contains the Air quality report in AQI, CO AQI, and Ozone AQI for cities and towns within countries. Since the forest level dataset measures the countries, I averaged the AQI for the cities in each country to get a mean AQI for the country overall.

# Methodology

# Results