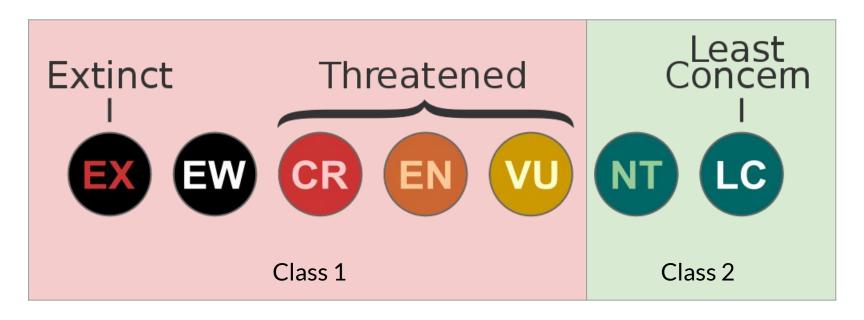
# **Predicting Threatened Species**

Solomon Klein

## What is the IUCN Redlist?



#### **Data Collection**



### **Data Processing**

- Download via Cypher queries
- Format in SQL

### **Analysis**

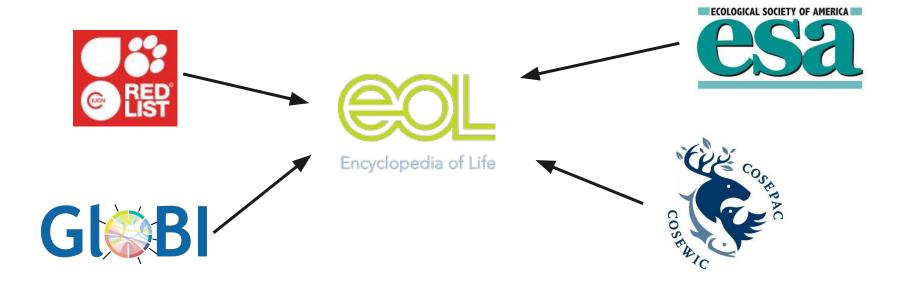
**ADASYN** 

Gradient Boosted Classifier

#### **Dashboard**



# **Encyclopedia of Life**



# **Data Collection & Cleaning**



## **Selected Features**

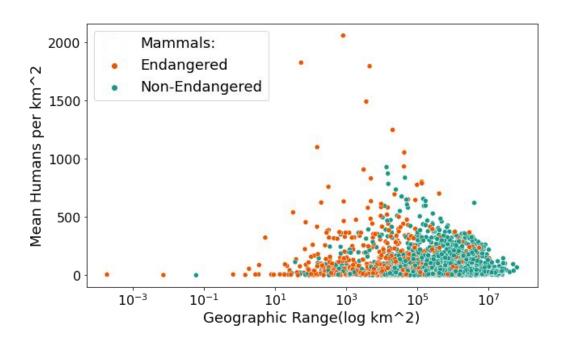


Red List status Habitat Food type



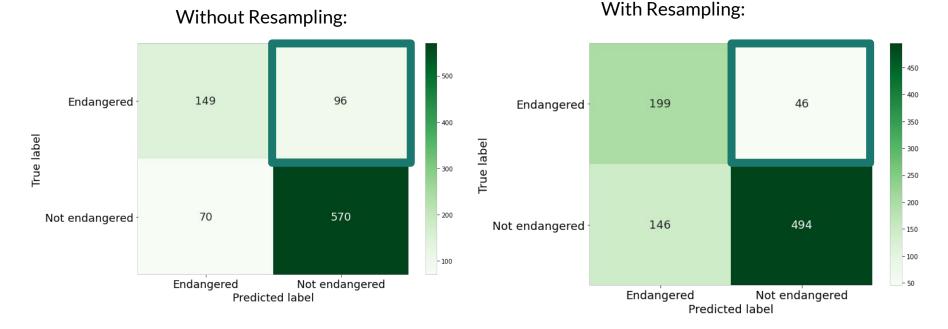
Body mass Geographic range Human population in that range

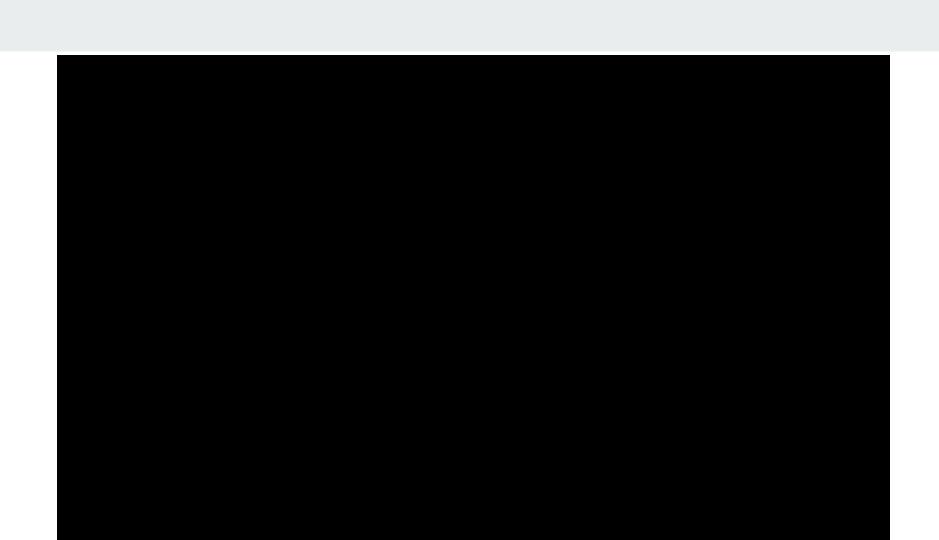
# **Classification Issues: Mixed Data**



## **ADASYN and Gradient Boosted Classification**







# **Questions?**

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https://github.com/computerGeologist/