



# Predicting Elephant Poaching

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DATA 606 Capstone in Data Science





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# 400,000

African elephants remain<sup>1</sup>

Conservation Status<sup>2</sup>: **Vulnerable**

Proportion of Illegally Killed Elephants (PIKE)<sup>3</sup>: **0.53**

PIKE is calculated as the ratio of illegally killed elephants found to total carcasses found. A ratio greater than 0.5 indicates more elephants were killed illegally than any other cause of death.

<sup>1</sup>Thouless, Christopher, et al. "African elephant status report 2016." *Occasional Paper Series of the IUCN Species Survival Commission* 60 (2016).

<sup>2</sup> World Wildlife Foundation

<sup>3</sup>Convention on International Trade in Endangered Species of Wild Fauna and Flora. "New report highlights continued threat to African elephants from poaching." *CITES Press Release*. 10 May 2019.

# Identify

Create dataset that identify factors which may affect poaching such as:

- Geographic features
- Economic pressures
- Ivory demand
- Season

# Rank

Determine influence of these factors and rank importance

# Predict

Develop predictive algorithm using rankings to aid in conservation efforts



