Biodiversity in National Parks

Data from the *National Parks Service* about endangered species in different parks



category

Bird

Fish

Mammal

Reptile

Amphibian

Nonvascular Plant

Vascular Plant

dtype: int64

Datasets

species_info.csv

80

521

127

214

333

79

4470

category: represents the species' family.
Can be:

Mammal

o Bird

Reptile

Amphibian

Fish

Vascular plant

Nonvascular Plant

• scientific_name: species' name in latin

common_names: common names in english language

• **conservation_status:** whether the species is

at risk. Possible values:

0

0

0

ok. i Ossible values.		
Not at Risk	Endangered	16
Species of Concern	In Recovery	4
Threatened	Not at risk	5633
Endangered	Species of Concern	161
In Recovery	Thursday	40

Threatened

10

observations.csv

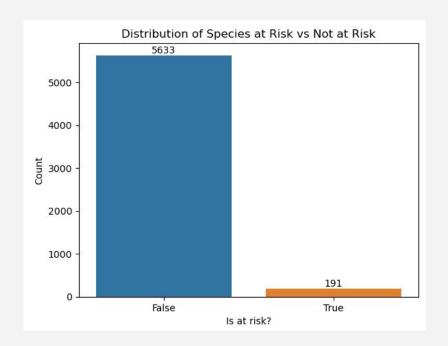
- scientific_name: species' name in latin
- park_name: Name of the National Park where the species was found
- **observations:** Number of specimens observed in said National Park

park_nam	e
Bryce National Par	rk
Great Smoky Mountains National Par	rk
Yellowstone National Par	rk
Yosemite National Par	rk



From a total of 5,824 species observed across four national parks...

191 are currently facing threats to their survival—falling into categories like Endangered, Threatened, In Recovery, or Species of Concern.

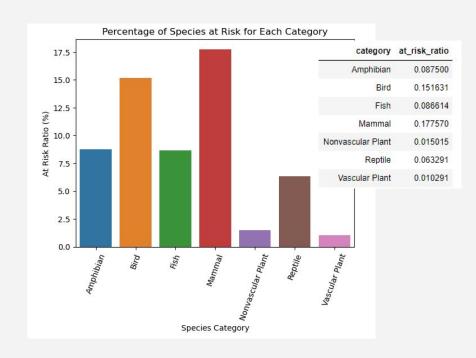




Comparing the Risk vs Not at Risk species on each category we find that...

Mammals (18%) and Birds (15%) are the categories facing the biggest threat.

The plant categories face the least threat — 1.5% and 1% for Nonvascular and Vascular respectively.

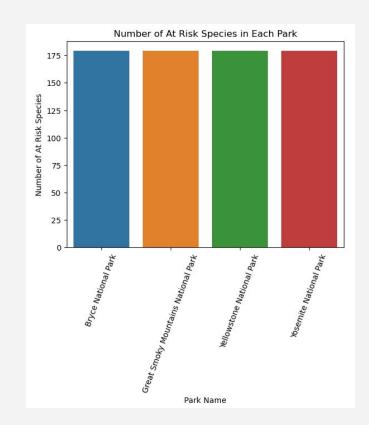


No. of species at risk per park

This being an **educational dataset**, it was cherry-picked and might have fake information for easier processing.

That caused the number of species to be exactly 179 for our 4 national parks.

In a real dataset, this would be almost impossible and we could choose to allocate more resources to the parks with more species at risk.



Recommendations

Based on our results, the most immediate course of action is to **focus on mammals and birds**.

Conservationists need to find out what's causing these two categories' populations to drastically decrease.

We need to get more info and find out if there are specific species pushing the categories' numbers that high or if it's a general thing.