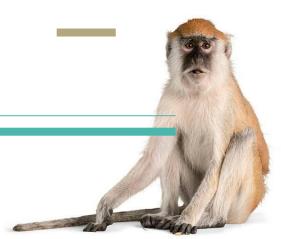


## Monkey Species Classification

Mengyu Jackson





- Business Problem
- Data
- Approach
- Results
- Conclusions



- Identify monkey species in wildlife photos
- Different species have different risks
- Help conservation groups allocate resources
- Low cost training/inference



- Small monkey dataset (~130 images per species for 10 species)
- Augmented with ~200 wildlife images with no monkeys

10 monkey species:

https://www.kaggle.com/slothkong/10-monkey-species

Oregon Wildlife:

https://www.kaggle.com/virtualdvid/oregon-wildlife



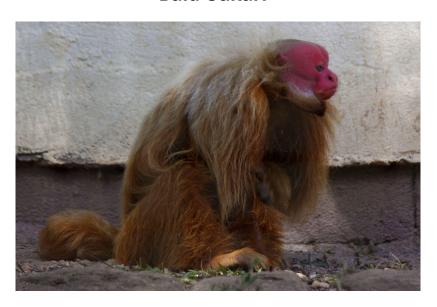
- Transfer Learning (adapt an existing image classification model)
- Base model trained on ImageNet: very large high quality standardized dataset with 1000 categories



- Fast Training Time
- 99+% accuracy
- 1 mislabeled image in test set

## **The Confused Classes**

**Bald Uakari** 



**Silvery Marmoset** 



## The Mislabelled Monkey

- White Bald Uakari Monkey
- Labelled Silvery Marmoset





bald uakari monkey



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monkey pitheciidae species



Bald Uakari | National Geographic nationalgeographic.com



Bald Uakari - New England Primate ... neprimateconservancy.org



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This Red-Faced Monkey Isn't Blu... treehugger.com



This Surreal Looking Monkey Actually ... thedodo.com



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What makes this monkey red in the face ... Bald Uakari Images, Stock Photos ...



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tenrandomfacts.com



Red uakari monkey cacajao calvus ...



















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- Very low data requirements
- Extremely high accuracy
- Fast training time

## Thank You For Watching!

~ Mengyu Jackson ~