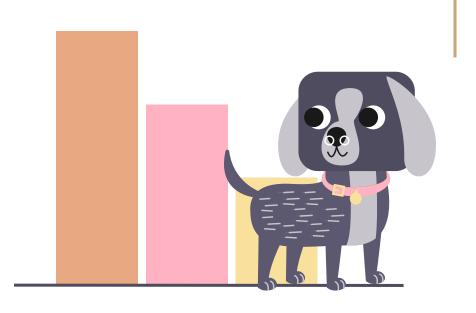
Dog Image Classification

Anhduy Nguyen



Team

Anhduy Nguyen



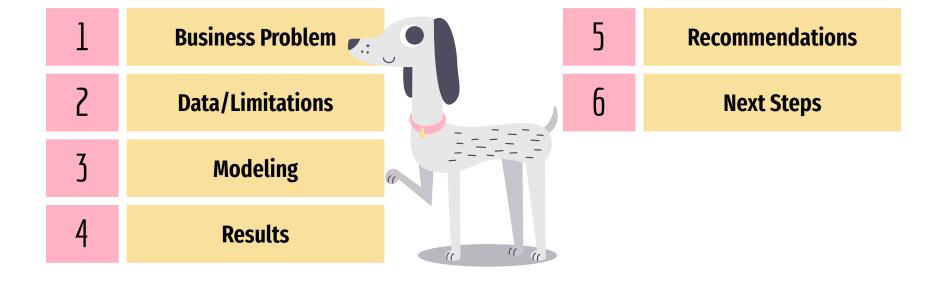
- Data Science Student
- B.S. Information Systems
- Former DatabaseAdministrator

Stakeholder

AS POSTA

American Society for the Prevention of Cruelty to Animals

Agenda



Business Problem

Business Understanding

The ASPCA's mission, as stated by founder Henry Bergh in 1866, is "to provide effective means for the prevention of cruelty to animals throughout the United States."

Every Year:

- 3.3 Million Dogs
- 50% are adopted
- 20-30% are Euthanized



https://pawsomeadvice.com/pets/stray-animal-statistics/

Business Problem

- No uniform way of classifying dog breeds
- Reduce work on volunteers
- Uniform Breed Labeling



Data/Limitations

Data

- Stanford Dog Data Set



Saluki







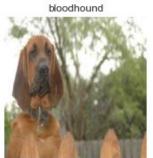


















Data Augmentation







Limitations

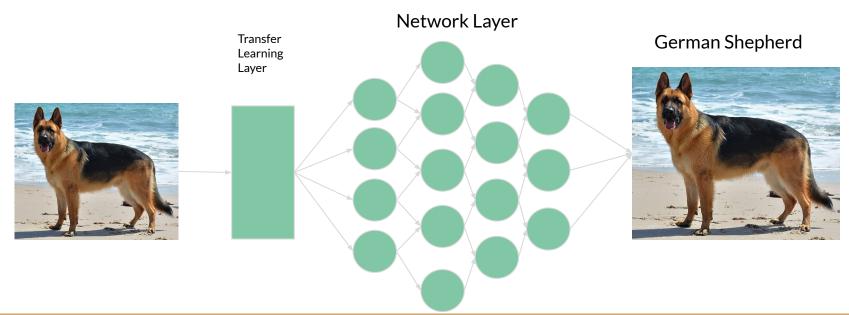


Modeling

Modeling

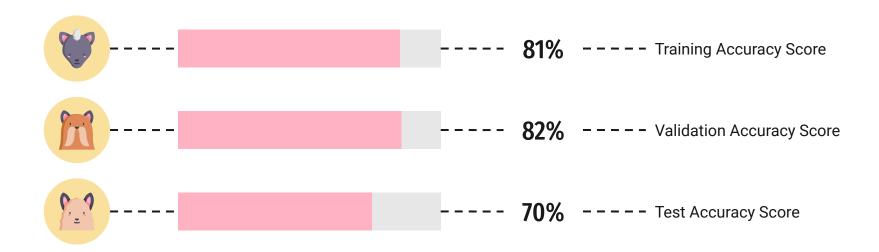
Convolutional Neural Network

- Analyze Visual Imagery



Results

Results

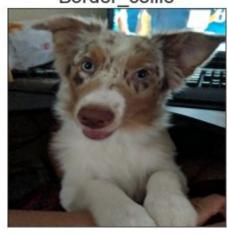


Examples

German_shepherd



Border_collie



miniature_poodle



Actual: German Shepherd

Australian Shepherd

Labradoodle

Recommendations

Recommendations



Reduce Volunteer/Worker workload

Uniform Classification System

Increase Searchability

Next Steps

Next Steps



01

Add Remaining Dog Breeds 02

Percentage Classification 03

Model with Cats and Birds

End

Contact Information

Thank you

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- https://github.com/anguyen61191

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