**OUTPUT 032819 (ResNet)**

root@edca4b0d540e:/home/workspace# python check\_images.py

Downloading: "https://download.pytorch.org/models/resnet18-5c106cde.pth" to /root/.torch/models/resnet18-5c106cde.pth

100%|█████████████████████████████████████████████████████████████| 46827520/46827520 [00:01<00:00, 26617521.49it/s]

Downloading: "https://download.pytorch.org/models/alexnet-owt-4df8aa71.pth" to /root/.torch/models/alexnet-owt-4df8aa71.pth

100%|███████████████████████████████████████████████████████████| 244418560/244418560 [00:13<00:00, 17778294.83it/s]

Downloading: "https://download.pytorch.org/models/vgg16-397923af.pth" to /root/.torch/models/vgg16-397923af.pth

100%|███████████████████████████████████████████████████████████| 553433881/553433881 [00:24<00:00, 22413963.91it/s]

Argument 1: pet\_images/

Command Line Arguments:

dir = pet\_images/

arch = resnet

dogfile = dognames.txt

Pet Image Label Dictionary has 40 key-value pairs.

Below are 10 of them:

1 key: Golden\_retriever\_05195.jpg label: golden retriever

2 key: Boston\_terrier\_02259.jpg label: boston terrier

3 key: German\_shorthaired\_pointer\_04986.jpg label: german shorthaired pointer

4 key: Saint\_bernard\_08010.jpg label: saint bernard

5 key: Great\_pyrenees\_05435.jpg label: great pyrenees

6 key: Basenji\_00974.jpg label: basenji

7 key: Boston\_terrier\_02303.jpg label: boston terrier

8 key: Miniature\_schnauzer\_06884.jpg label: miniature schnauzer

9 key: Boston\_terrier\_02285.jpg label: boston terrier

10 key: cat\_01.jpg label: cat

MATCH:

Boston\_terrier\_02259.jpg:

Real: boston terrier Classifier: boston bull, boston terrier

Boston\_terrier\_02303.jpg:

Real: boston terrier Classifier: boston bull, boston terrier

Boston\_terrier\_02285.jpg:

Real: boston terrier Classifier: boston bull, boston terrier

German\_shepherd\_dog\_04931.jpg:

Real: german shepherd dog Classifier: german shepherd, german shepherd dog, german police dog, alsatian

Basset\_hound\_01034.jpg:

Real: basset hound Classifier: basset, basset hound

Rabbit\_002.jpg:

Real: rabbit Classifier: wood rabbit, cottontail, cottontail rabbit, rabbit

Poodle\_07927.jpg:

Real: poodle Classifier: standard poodle, poodle

German\_shepherd\_dog\_04890.jpg:

Real: german shepherd dog Classifier: german shepherd, german shepherd dog, german police dog, alsatian

cat\_07.jpg:

Real: cat Classifier: egyptian cat, cat

polar\_bear\_04.jpg:

Real: polar bear Classifier: ice bear, polar bear, ursus maritimus, thalarctos maritimus

cat\_02.jpg:

Real: cat Classifier: tabby, tabby cat, cat

Poodle\_07956.jpg:

Real: poodle Classifier: standard poodle, poodle

NOT A MATCH:

Golden\_retriever\_05195.jpg:

Real: golden retriever Classifier: golden retriever

German\_shorthaired\_pointer\_04986.jpg:

Real: german shorthaired pointer Classifier: german shorthaired pointer

Saint\_bernard\_08010.jpg:

Real: saint bernard Classifier: saint bernard, st bernard

Great\_pyrenees\_05435.jpg:

Real: great pyrenees Classifier: great pyrenees

Basenji\_00974.jpg:

Real: basenji Classifier: basenji

Miniature\_schnauzer\_06884.jpg:

Real: miniature schnauzer Classifier: miniature schnauzer

cat\_01.jpg:

Real: cat Classifier: norwegian elkhound, elkhound

fox\_squirrel\_01.jpg:

Real: fox squirrel Classifier: fox squirrel, eastern fox squirrel, sciurus niger

Golden\_retriever\_05223.jpg:

Real: golden retriever Classifier: golden retriever

gecko\_80.jpg:

Real: gecko Classifier: tailed frog, bell toad, ribbed toad, tailed toad, ascaphus trui

Dalmatian\_04037.jpg:

Real: dalmatian Classifier: dalmatian, coach dog, carriage dog

Beagle\_01141.jpg:

Real: beagle Classifier: beagle

Golden\_retriever\_05182.jpg:

Real: golden retriever Classifier: leonberg

Boxer\_02426.jpg:

Real: boxer Classifier: boxer

Saint\_bernard\_08036.jpg:

Real: saint bernard Classifier: saint bernard, st bernard

gecko\_02.jpg:

Real: gecko Classifier: african chameleon, chamaeleo chamaeleon

Great\_dane\_05320.jpg:

Real: great dane Classifier: great dane

Collie\_03797.jpg:

Real: collie Classifier: collie

Dalmatian\_04068.jpg:

Real: dalmatian Classifier: dalmatian, coach dog, carriage dog

Great\_pyrenees\_05367.jpg:

Real: great pyrenees Classifier: kuvasz

Dalmatian\_04017.jpg:

Real: dalmatian Classifier: dalmatian, coach dog, carriage dog

Basenji\_00963.jpg:

Real: basenji Classifier: basenji

Beagle\_01170.jpg:

Real: beagle Classifier: walker hound, walker foxhound

Cocker\_spaniel\_03750.jpg:

Real: cocker spaniel Classifier: cocker spaniel, english cocker spaniel, cocker

skunk\_029.jpg:

Real: skunk Classifier: skunk, polecat, wood pussy

Golden\_retriever\_05257.jpg:

Real: golden retriever Classifier: golden retriever

Beagle\_01125.jpg:

Real: beagle Classifier: beagle

great\_horned\_owl\_02.jpg:

Real: great horned owl Classifier: great grey owl, great gray owl, strix nebulosa

# Total Images 40 # Matches: 12 # NOT Matches: 28

MATCH:

Boston\_terrier\_02259.jpg:

Real: boston terrier Classifier: boston bull, boston terrier

PetLabelDog: 1 ClassLabelDog: 1

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Real: boston terrier Classifier: boston bull, boston terrier

PetLabelDog: 1 ClassLabelDog: 1

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Real: boston terrier Classifier: boston bull, boston terrier

PetLabelDog: 1 ClassLabelDog: 1

German\_shepherd\_dog\_04931.jpg:

Real: german shepherd dog Classifier: german shepherd, german shepherd dog, german police dog, alsatian

PetLabelDog: 1 ClassLabelDog: 1

Basset\_hound\_01034.jpg:

Real: basset hound Classifier: basset, basset hound

PetLabelDog: 1 ClassLabelDog: 1

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Real: rabbit Classifier: wood rabbit, cottontail, cottontail rabbit, rabbit

PetLabelDog: 0 ClassLabelDog: 0

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Real: poodle Classifier: standard poodle, poodle

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Real: saint bernard Classifier: saint bernard, st bernard

PetLabelDog: 1 ClassLabelDog: 1

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Real: great pyrenees Classifier: great pyrenees

PetLabelDog: 1 ClassLabelDog: 1

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PetLabelDog: 0 ClassLabelDog: 1

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Real: golden retriever Classifier: golden retriever

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gecko\_80.jpg:

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Real: great pyrenees Classifier: kuvasz

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Real: basenji Classifier: basenji

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PetLabelDog: 1 ClassLabelDog: 1

Cocker\_spaniel\_03750.jpg:

Real: cocker spaniel Classifier: cocker spaniel, english cocker spaniel, cocker

PetLabelDog: 1 ClassLabelDog: 1

skunk\_029.jpg:

Real: skunk Classifier: skunk, polecat, wood pussy

PetLabelDog: 0 ClassLabelDog: 0

Golden\_retriever\_05257.jpg:

Real: golden retriever Classifier: golden retriever

PetLabelDog: 1 ClassLabelDog: 1

Beagle\_01125.jpg:

Real: beagle Classifier: beagle

PetLabelDog: 1 ClassLabelDog: 1

great\_horned\_owl\_02.jpg:

Real: great horned owl Classifier: great grey owl, great gray owl, strix nebulosa

PetLabelDog: 0 ClassLabelDog: 0

# Total Images 40 # Matches: 12 # NOT Matches: 28

\*\* Statistics from calculates\_results\_stats() function:

N Images: 40 N Dog Images: 30 N NotDog Images: 10

Pct Corr dog: 100.0 Pct Corr NOTdog: 90.0 Pct Corr Breed: 26.7

\*\* Check Statistics - calculated from this function as a check:

N Images: 40 N Dog Images: 30 N NotDog Images: 10

Pct Corr dog: 100.0 Pct Corr NOTdog: 90.0 Pct Corr Breed: 26.7

\*\*\* Results Summary for CNN Model Architecture RESNET \*\*\*

N Images : 40

N Dog Images : 30

N Not-Dog Images : 10

pct\_match: 30.0

pct\_correct\_dogs: 100.0

pct\_correct\_breed: 26.7

pct\_correct\_notdogs: 90.0

INCORRECT Dog/NOT Dog Assignments:

Real: cat Classifier: norwegian elkhound, elkhound

INCORRECT Dog Breed Assignment:

Real: golden retriever Classifier: golden retriever

Real: german shorthaired pointer Classifier: german shorthaired pointer

Real: saint bernard Classifier: saint bernard, st bernard

Real: great pyrenees Classifier: great pyrenees

Real: basenji Classifier: basenji

Real: miniature schnauzer Classifier: miniature schnauzer

Real: golden retriever Classifier: golden retriever

Real: dalmatian Classifier: dalmatian, coach dog, carriage dog

Real: beagle Classifier: beagle

Real: golden retriever Classifier: leonberg

Real: boxer Classifier: boxer

Real: saint bernard Classifier: saint bernard, st bernard

Real: great dane Classifier: great dane

Real: collie Classifier: collie

Real: dalmatian Classifier: dalmatian, coach dog, carriage dog

Real: great pyrenees Classifier: kuvasz

Real: dalmatian Classifier: dalmatian, coach dog, carriage dog

Real: basenji Classifier: basenji

Real: beagle Classifier: walker hound, walker foxhound

Real: cocker spaniel Classifier: cocker spaniel, english cocker spaniel, cocker

Real: golden retriever Classifier: golden retriever

Real: beagle Classifier: beagle

\*\* Total Elapsed Runtime: 0:0:6

root@edca4b0d540e:/home/workspace#