

# Animal Image Classification Using Roboflow

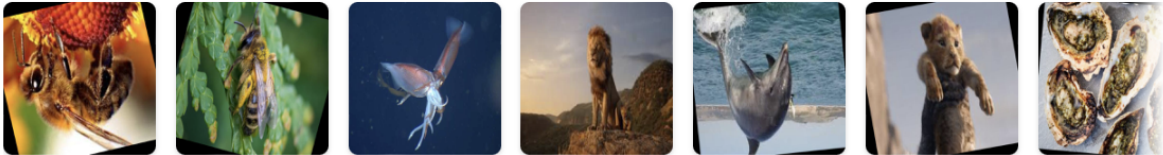
## Dataset

90 classes of different animals, 12935 Total images split into train, valid, test sets (87/8/4):

Dataset Details

12935 Total Images

[View All Images →](#)



Dataset Split

TRAIN SET

87%

11315 Images

VALID SET

8%

1080 Images

TEST SET

4%

540 Images

Preprocessing

Auto-Orient: Applied

Resize: Stretch to 640x640

Augmentations

Outputs per training example: 3

Flip: Horizontal, Vertical

Rotation: Between  $-15^{\circ}$  and  $+15^{\circ}$

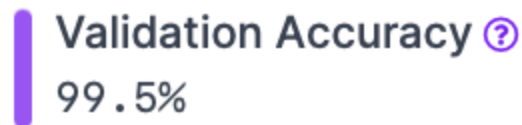
## Training

Trained dataset using Roboflow free GPU credits. Example for code that could be used to train locally can be found in ML.ipynb.

Note: this training was NOT done using ML.ipynb. Roboflow does not allow for custom python code, it trains using its own pre-trained model for a given task. ML.ipynb was too slow to run locally, so I had to use a cloud solution.

## Results

**99.5% accuracy for image classification on VALID set**



## Examples

Ignore the bounding boxes, they are not applicable in this training task.

The % is confidence

