DL

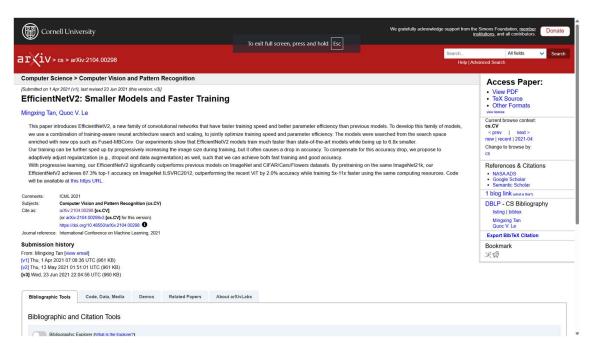
Resource pack

Name kanak chouksey, Nimish ikhar

Roll no 33,38

Base paper

URL: https://arxiv.org/abs/2104.00298

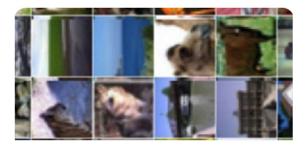


Kaggle dataset:

CIFAR-10

CIFAR-100 Python

A collection of images commonly used to train computer vision algorithms



About Dataset

Similar Datasets:

CIFAR-10 Python (in CSV): LINK

Context

The CIFAR-100 dataset consists of 60000 32x32 colour images in 100 classes, with 600 images per class. The 100 classes in the CIFAR-100 are grouped into 20 superclasses. Each image comes with a "fine" label (the class to which it belongs) and a "coarse" label (the superclass to which it belongs). There are 50000 training images and 10000 test images. The meta file contains the label names of each class and superclass.

Content

Here is the list of the 100 classes in the CIFAR-100:

Classes:

- 1-5) beaver, dolphin, otter, seal, whale
- 6-10) aquarium fish, flatfish, ray, shark, trout
- 11-15) orchids, poppies, roses, sunflowers, tulips
- 16-20) bottles, bowls, cans, cups, plates
- 21-25) apples, mushrooms, oranges, pears, sweet peppers
- 26-30) clock, computer keyboard, lamp, telephone, television
- 31-35) bed, chair, couch, table, wardrobe
- 36-40) bee, beetle, butterfly, caterpillar, cockroach
- 41-45) bear, leopard, lion, tiger, wolf
- 46-50) bridge, castle, house, road, skyscraper
- 51-55) cloud, forest, mountain, plain, sea
- 56-60) camel, cattle, chimpanzee, elephant, kangaroo
- 61-65) fox, porcupine, possum, raccoon, skunk
- 66-70) crab, lobster, snail, spider, worm
- 71-75) baby, boy, girl, man, woman
- 76-80) crocodile, dinosaur, lizard, snake, turtle
- 81-85) hamster, mouse, rabbit, shrew, squirrel
- 86-90) maple, oak, palm, pine, willow
- 91-95) bicycle, bus, motorcycle, pickup truck, train
- 96-100) lawn-mower, rocket, streetcar, tank, tractor

and the list of the 20 superclasses:

- 1) aquatic mammals (classes 1-5)
- 2) fish (classes 6-10)
- 3) flowers (classes 11-15)
- 4) food containers (classes 16-20)

- 5) fruit and vegetables (classes 21-25)
- 6) household electrical devices (classes 26-30)
- 7) household furniture (classes 31-35)
- 8) insects (classes 36-40)
- 9) large carnivores (classes 41-45)
- 10) large man-made outdoor things (classes 46-50)
- 11) large natural outdoor scenes (classes 51-55)
- 12) large omnivores and herbivores (classes 56-60)
- 13) medium-sized mammals (classes 61-65)
- 14) non-insect invertebrates (classes 66-70)
- 15) people (classes 71-75)
- 16) reptiles (classes 76-80)
- 17) small mammals (classes 81-85)
- 18) trees (classes 86-90)
- 19) vehicles 1 (classes 91-95)
- 20) vehicles 2 (classes 96-100)

Acknowledgements

• Learning Multiple Layers of Features from Tiny Images, Alex Krizhevsky, 2009. Link

Kaggle API

```
import kagglehub
```

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path = kagglehub.dataset_download("fedesoriano/cifar100")

print("Path to dataset files:", path)

GOOGLE COLLAB LINK

EfficientNetV2L=

https://colab.research.google.com/drive/1gLKsV7S24XO1oqOM5myRiqZDaUswtLK?usp=sharing