Deep learning project

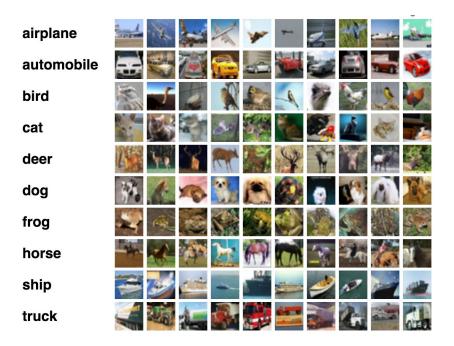
2018.11.05 NCTU

Outline

- Image Classfication
- Super Resolution
- Object Dection

Image Classfication

- Dataset: CINIC-10
 - https://github.com/BayesWatch/cinic-10
- 270,000 images
 - o 90000 training
 - 90000 validation
 - o 90000 testing
- Scoring metric:
 - Accuracy
 - CPU inference speed
 - o GPU inference speed



Super Resolution

- Dataset: DIV2K
 - https://data.vision.ee.ethz.ch/cvl/DIV2K/
- Baseline: thstkdgus35/EDSR-PyTorch
 - https://github.com/thstkdgus35/EDSR-PyTorch
- Scoring metric:
 - Average peek signal noise ratio (PSNR)
 - CPU inference speed
 - GPU inference speed
- Reference:
 - https://ieeexplore.ieee.org/document/8014885



Requirement

