Stanford Car Classification

Dataset Details

- Goal
  - Classify image data of car type
- Task
  - image classification(196 classes of cars)
- Training / Testing
  - 8,144 / 8,041
- ref
  - http://ai.stanford.edu/~jkrause/cars/car_dataset.html

作業要求

- 利用Pytorch，建構一個你自己設計的CNN模型，包含
  - 模型架構定義(多少層convolution, pooling, residual, dense connection, fully?)
  - 參數設定 (所有參數結開放調整)
  - 資料處理 (data augmentation, background subtraction,…)
  - 運用Pre-training
- 完成模型訓練與測試
  - Training Accuracy、Training Loss、Testing Accuracy
- 比較實驗結果
  - 有比作業二的準確度高嗎?
  - 結果討論與原因推論

Assignment #3 – CNN Model Design

- You need to hand in your source code and report
- The report should cover:
  - Method description – What is your strategy for parameter selection?
  - Experimental results
  - Discussion
  - Problem and difficulties
- Deadline: 5/20 11:59 pm (Mon)
- File format – zip all your files into a single file:
  studentID_hw1_version, ex: 602410143_hw1_v1

Assignment Rules

- **Late policy**
  - You will get 20% deduction of your scores per day.
  - It means if the assignment is delayed one day for 80%, two days for 60%,…, five days for 0% .
- **No-copy policy**
  - Copying is strictly forbidden in our class.
  - Once the assignment is confirmed by TA as COPY, the score will be 0%.