⊹ Insegnamento

Advanced Machine Learning
2122-2-F1801Q151

Assignment 4

Due: Saturday, 18 December 2021, 11:55 PM

The task of the assignment #4 is Transfer Learning using a CNN pretrained on IMAGENET.

The suggested architecture is the VGG16.

The CNN should be used as fixed feature extractor on a new task of your choice containing a number of classes in the range from 2 to 10.

The report must contain:
- a description of the new task and on the dataset used
- the use of the pretrained CNN as feature extractor considering different layers (at least 3 different choices)
- the chosen "classical" classifier
- for each transfer learning experiment:

  1. the details about the chosen layer
  2. the plot of the classification performance on train/val/test for the different layers considered
  3. the hyper-parameters used for training the "classical" classifier

Submission status

Submission status	Submitted for grading
Grading status	Not graded
Time remaining	Assignment was submitted 4 hours 52 mins early
Last modified	Saturday, 18 December 2021, 7:02 PM
File submissions	📄 Nabil_ELAsri_826040_assignment4.zip 18 December 2021, 7:02 PM Export to portfolio
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