TASK 3

Open-ended (graded)

You are in the group Deepforgetting consisting of junterhol (junterhol@student.ethz.ch (mailto://junterhol@student.ethz.ch)), merklec (merklec@student.ethz.ch (mailto://merklec@student.ethz.ch)) and ribadov (ribadov@student.ethz.ch (mailto://ribadov@student.ethz.ch)).

1. READ THE TASK DESCRIPTION

2. SUBMIT SOLUTIONS

3. HAND IN FINAL SOLUTION

3. HANDIN CLOSED ON THURSDAY 09 MAY 2024 00:02

HOW TO OBTAIN POINTS

To obtain points for this task, you have to **individually** hand in the task as follows:

- You need to select one of your group's submissions for grading. You will only be graded on that submissions.
- You have to write a short report on the approach that you have used. **Each student has to individually write their own report and you are not allowed to share the report with your other group members.**

If you do not properly hand in the task, you will receive zero points for the task.

Please double check that your handin was successful by refreshing the page after pressing the hand in button!

CURRENT STATUS

✔ You have successfully handed in the task and it will be graded.

Submission selected for grading

results_task3_24.txt (another try) with public score 0.7064050351721585

Report

We tried a lot and came to the following approach:

We first preprocess the image data by using a configurable torchvision transforms-function which employs resizing, center cropping and normalization. We then generate embeddings with the help of a pre-trained ResNet50 model that has a default weight parameter.

We map embeddings to the corresponding image filenames. We then create triplets of embeddings with their corresponding 1 (similar) and 0 (dissimilar) labels.

The model is configured with several layers with ReLu activation functions. We experimented a lot on the input and output sizes. Concatenated embeddings of image triplets are the model's input. We get a similarity score between the anchor and positive images as output.

Preliminary grade

✔ Your submission is better than the baseline. Congratulations, you have passed the task. Your task grade: 6.

Note that the grade is preliminary. We will further assess your submission. In a few cases, we may change the grade for this task throughout the semester.

Grading details

Test set	Your submission's score	Baseline score	Pass
Public	0.7064050351721585	0.6832149708862038	True
Private	0.7028123219253847	0.6860858780545034	True

NEW REPORT

Handin has closed on Thursday 09 May 2024 00:02. We cannot accept late handins.