

Deep Learning (SE4050) - Lab Sheet 3

Image 1 – karpathy.jpg



Image 2 – karpathy_2.jpg



Face Verification

```
[ ] verify("images/karpathy_2.jpg", "karpathy", database, FRmodel)

It's karpathy, welcome home!
(0.6444936, True)

Expected Output:
**It's younes, welcome home!** (0.65939283, True)
```

Face Recognition

```
[ ] output = who_is_it("images/karpathy_2.jpg", database, FRmodel)

it's karpathy, the distance is 0.6444936

Expected Output:
**it's younes, the distance is 0.659393** (0.65939283, 'younes')

#dictionary contains the L2 distance between target image encoding and database embeddings of other images
output[2]

{'danielle': 0.9550325,
 'karpathy': 0.6444936,
 'tian': 0.8719806,
 'andrew': 1.1336107,
 'kian': 1.2245225,
 'dan': 1.2710344,
 'sebastiano': 1.1900603,
 'bertrand': 1.2525777,
 'kevin': 1.1464237,
 'felix': 1.2158957,
 'benoit': 1.0701562,
 'arnaud': 1.3362656}
```