

18.05.2017

DNN hands on challenge - HW 4

Due date: 25.5.17

Goal for this HW: Use non glucose features for prediction

General Submission Notes

1. Submission in **PDF** format only. **File name** should **include your name**.
2. Submission in pairs (one per group).
3. Send everything to both: niv.haim at weizmann ac il & hadar.gorodissky at weizmann ac il

Task

As explained in class, include in your training data at least two out of the three following datasets:

- Meals and Testfood
- Measurements
- Time of the day

Write Report

A. Describe your work flow

- What problems did you encounter throughout your work?
- How did you try to improve your scores?
 - What was your initial implementation?
 - What did you change?
 - What made you change it (intuition, trial and error etc.)?
 - How did that improve/worsen your score?

(These are some guidelines to get you started. You can describe your work in whatever manner you want as long as it is **succinct**)

B. When describing your nets pay attention to the following terms

1. **Input:**
 - What features did you use in your training?

- Did you normalize your data and how?
- 2. **Architecture:**
 - How did you insert the different input types into the net? Did you use the same weights for all data types?
 - For each layer: size, activation function, initialization
- 3. **Optimizer:**
 - Which one did you use?
 - What parameters did you use?
 - What learning rate approach did you use?

Whenever possible, write the reasons why you chose this parameter - “theoretical”, “intuition” or trial and error. explain briefly what you tried or what was your intuition about it.

**** We would ask those of you with an interesting story to present your work to the class (with your approval) as a basis for discussion and for the benefit of all ****

Have fun! :)

Hadar & Niv