

# Dnn- Hands on Challenge

## Homework 1: Visualizing

Exercise goal: visualizing the data helps to decide on the data preprocessing methods, this can optimize the training process. Here are some ideas for graphs that can help to detect outliers, normalization methods etc. You are encouraged to try to think of other ways of achieving the same goal.

Plot the following graphs:

1. Time series of glucose: for a random person, plot curve for each day
2. Histogram of:
  - Differences in glucose level (1 hour)
  - Blood tests – of significance tests
  - Measurements - of significance tests
  - Bacterial species:
    - ❖ Number of bac per person
    - ❖ Number of persons per bac
  - Meals:
    - ❖ Number of meals per day
    - ❖ Mean number of meals per person
    - ❖ Calories per day
    - ❖ Mean calories per day per person
  - Exercise:
    - ❖ Exercises per day
    - ❖ Mean number of exercises per person
  - Sleep:
    - ❖ Duration per day
    - ❖ Mean sleep per day per person