Tensorflow Tutorial

Lesson 5

A simple, yet more complex example

Estimate pricing of flat including area

- Two inputs: Area and a „grade" of the area, where „1" is the best , and „6" the worst

- Since we have two inputs, more weights are needed

- The formula now may looks like this:

  - $y = x_1 * W_1 + x_2 * W_2 + b$

  - Where W and b are learnable parameters

Key Changes to code in comparison to Lesson 4

1. Read out function must now read 2 x values

2. All calculations are now in „tensorflow"

3. Tdqm was used
   - If it is not found try to install it via pip

4. Learning rate was changed
   - If the learning rate is too high, the loss may never converge

5. Different initialization of weights

Interesting Parameters

- What happens if the learning rate is changed?

- What happens if the number of iterations is changed ?

- What happens if the weights and the bias gets initialzed differently?

→ Do not forget to use the tensorboard !