

workspace

To open this notebook, you have two options:

- Go to the next page in the classroom (recommended)
- Clone the repo from Github and open the notebook GradientDescent.ipynb in the gradient-descent folder. You can either download the repository with git clone https://github.com/udacity/deep-learning.git, or download it as an archive file from this link.

Instructions

In this notebook, you'll be implementing the functions that build the gradient descent algorithm, namely:

- sigmoid: The sigmoid activation function.
- output_formula: The formula for the prediction.
- error_formula : The formula for the error at a point.
- update_weights: The function that updates the parameters with one gradient descent step.

When you implement them, run the train function and this will graph the several of the lines that are drawn in successive gradient descent steps. It will also graph the error function, and you can see it decreasing as the number of epochs grows.

This is a self-assessed lab. If you need any help or want to check your answers, feel free to check out the solutions notebook in the same folder, or by clicking here.

Search or ask questions in Knowledge.

Ask peers or mentors for help in Student Hub.