Implementing Gradient Descent in Python: Takeaways

Concepts

- Weight and bias: the two main components of a line formula.
- Loss function: a function that calculates the error between predicted and real data.
- Mean squared error: a specific loss function that shows the average of squared error for a given line.
- Partial derivatives: a mathematical way to calculate the slope of a gradient at a particular point — used to update the weights in a gradient descent algorithm.
- Hyperparameters: overarching parameters of a gradient descent function that slightly alter how it works.

Resources

- Loss Function
- Mean Squared Error
- Partial Derivatives
- Hyperparameter