

Aula M1A28 Introdução a Gradiente Descendente.

Leitura complementar:

- [Gradient descent, how neural networks learn | Deep learning](#)
- [Understanding the Mathematics behind Gradient Descent.](#)
- [Description of the Gradient Operator](#)
- [Linear Regression using Gradient Descent](#)
- [gradiente](#)
- [The Evolution of Gradient Descent Optimization Algorithm](#)
- [Gradient Descent Explained](#)
- [GRADIENT DESCENT: AN INTRODUCTION TO 1 OF MACHINE LEARNING'S MOST POPULAR ALGORITHMS](#)
- [GRADIENT DESCENT : Basics And Application](#)
- [Mean Squared Error: Definition and Example](#)
- [Understanding Learning Rate](#)
- [Setting the learning rate of your neural network.](#)
- [Gradient descent](#)
- [How to Choose an Optimal Learning Rate for Gradient Descent](#)
- [Understanding Hyperparameters and its Optimisation techniques](#)
- [Z-Score: Definition, Formula and Calculation](#)
- [Python Matrix Multiplication using a Dedicated Infix Operator @](#)
- [PEP 465 -- A dedicated infix operator for matrix multiplication](#)
- [numpy.zeros](#)
- [grilo](#)
- [scipy.stats.linregress¶](#)
- [Batch, Mini Batch & Stochastic Gradient Descent](#)
- [Stochastic Gradient Descent — Clearly Explained !!](#)
- [3 Types of Gradient Descent Algorithms for Small & Large Data Sets](#)
- [Alternatives to the Gradient Descent Algorithm](#)

- [1.5. Stochastic Gradient Descent](#)
- [Optimizers](#)
- [More on Gradient Descent Algorithm and other effective learning Algorithms...](#)
- [Optimizers Explained - Adam, Momentum and Stochastic Gradient Descent](#)
- [An overview of gradient descent optimization algorithms](#)
- [Why Momentum Really Works](#)
- [An Empirical Comparison of Optimizers for Machine Learning Models](#)
- [Alec Radford's animations for optimization algorithms](#)
- [Visualizing and Animating Optimization Algorithms with Matplotlib](#)
- [Optimize the Beale Function using tf.train.Optimizer](#)
- [Gentle Introduction to the Adam Optimization Algorithm for Deep Learning](#)
- [Adam: A Method for Stochastic Optimization](#)
- [Gradient Descent, Step-by-Step](#)
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