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iteratively repeatedly make local improvements this class is in part an introduction to such algorithms often called iterative methods

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complexity theory what is an optimal algorithm computer May 11 2023 an algorithm for solving a problem  $p$  is asymptotically optimal with respect to worst case running time if it runs in time  $t_n$  and any algorithm for  $p$  runs in time  $\omega t_n$  in fact this notion is ambiguous since it s not clear what the parameter  $n$  is

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**understanding optimization algorithms in machine learning** Feb 08 2023 in this article let s discuss two important optimization algorithms gradient descent and stochastic gradient descent algorithms how they are used in machine learning models and the mathematics behind them 2 maxima and minima maxima is the largest and minima is the smallest value of a function within a given range we represent them as below

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**near optimal algorithms for minimax optimization** Nov 05 2022 1 introduction let  $m$  and  $n$  be finite dimensional euclidean spaces and let the function  $f: m \times n \rightarrow \mathbb{R}$  be smooth let  $x$  and  $y$  are two nonempty closed convex sets in  $\mathbb{R}^m$  and  $\mathbb{R}^n$  our problem of interest is the following minimax optimization problem  $\min_x \max_y f(x, y)$

*combinatorial algorithms for optimal design* Oct 04 2022 optimal experimental design pukelsheim 2006 lies at the intersection of statistics and optimization where the goal is to pick a subset of statistical trials to perform from a given set of available trials

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