23 September 2024 20:26

GRID SEARCH = exhaustive search over all possible combinations of hyper parameters.

RANDOM SEARCH = sample hyperparam from prior dishribution (explore space randomly as per chosen dishrib")
taster than grid.

STOCHASTIC HILL CLIMBING = Initial set of hyperparam -> random adjustment -> improved

(hill local ophima)

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accept

BAYESIAN = sphimises next choice instead of random — balances exploration.

april > bayenian > vandom

exploration.

- = assume performance for from gaussian, maintains posterior
- = ophimizes expected improvement on curr. best result. (upper confidence bound)
- = quickly finds ophimum of non-convex function
- = evaluations are computationally heavy, but few.