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Programming Assignment 5

Click this link to download the Ridge Regression notebook and then complete problems 1-3.

If you are completely stuck on this notebook, you can consult these hints.

Problem 1

1/1 point (graded)

In setting the step size, does it make sense in practice to pick a fixed schedule like 1/t(where t = 1, 2, 3, ... is the iteration)? Select all that apply.

Yes, that should work well in general.
Not really: it is important to adapt to the scale of the loss function and/or gradient; otherwise, the steps might be much too big or much too small.
Not really: there is no need to reduce the step size with time.
Yes: in fact any schedule that decreases with t will work well.



Submit

Problem 2

1/1 point (graded)

Is it possible to design the gradient descent scheme so that the loss values are monotonically decreasing with successive iterations?

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