

MITx 6.86x

Machine Learning with Python-From Linear Models to Deep Learning

Discussion Course **Progress** Dates Resources

A Course / Unit 2. Nonlinear Classification, Linear regression, ... / Project 2: Dig



5. Temperature

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Project due Mar 15, 2023 08:59 -03 Completed

We will now explore the effects of the temperature parameter in our algorithm.

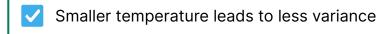
You will be working in the files part1/main.py and part1/softmax.py in this proble

Effects of Adjusting Temperature

1.0/1.0 point (graded)

Explain how the temperature parameter affects the probability of a sample $x^{(i)}$ being a large θ . What about a small θ ?

Larger temperature leads to less variance



Smaller temperature makes the distribution more uniform



Submit

You have used 1 of 3 attempts

Reporting Error Rates

2.0/2.0 points (graded)

Set the temperature parameter to be 0.5, 1, and 2; re-run [run_softmax_on_MNIST] for your code to the specified part in **main.py**).

$$\mathbf{Error}|_{T=2} = \boxed{0.1261}$$

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