

Assignment 1 Notes

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1. Softmax

$$\begin{aligned}\text{softmax}(x)_i &= \frac{e^{x_i}}{\sum_j e^{x_j}} \\ \text{softmax}(x+c)_i &= \frac{e^{x_i+c}}{\sum_j e^{x_j+c}} = \frac{e^c e^{x_i}}{e^c \sum_j e^{x_j}} = \frac{e^{x_i}}{\sum_j e^{x_j}}\end{aligned}$$