Homework for Backpropagation in MLP (Ungraded)

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Questions

The following questions will make you comfortable with the derivations we did here:

- Derive the complete backpropagation procedure for a classification problem with c classes. Here, L is the cross-entropy loss.
- Derive the complete backpropagation procedure for a regression problem. Here L is the SSE.
- What happens to the derivations if we have a batch-size greater than 1 in our training? What would change in our derivations?

Submit your answers in PDF at my email. You can also submit Python notebooks showing individual computation at scalar-level (for this share your GitHub repository link).