Homework for Backpropagation in MLP (Ungraded)

Tirtharaj Dash

Dept. of CS & IS and APPCAIR BITS Pilani, Goa Campus

September 04, 2021

Questions

These two 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.