Learning Rate and Batch Size

Quiz, 5 questions

5/5 points (100%)

Congratulations! You passed! Next Item

1 / 1 point

1. What is the key reason that we want to penalize models for over-complexity?

- [x] Overly-complex models may not be generalizable to real-world scenarios on unseen data

Correct
Correct. This is just another way of saying that overly complex models have a greater tendency to overfit.

- [ ] Overly-complex models are slower to train
- [ ] Overly-complex models are harder to implement or maintain in production environments.

1 / 1 point

2. If your learning rate is too small, your loss function will:

- [x] Converge very slowly

Correct

- [ ] Converge very fast

1 / 1 point

3. If your learning rate is too high, your loss function

- [ ] Will converge rapidly to the lowest error value possible
- [ ] Will converge rapidly, but then start to increase again
- [x] Will converge rapidly, but not reach the lowest error value possible

Correct

- [ ] Will converge slowly to the lowest error value possible

1 / 1 point

4. If your batch size is too high, your loss function will

- [ ] Oscillate wildly
- [x] Converge slowly

Correct

1 / 1 point

5. If your batch size is too low, your loss function will:

- [ ] Converge slowly
- [x] Oscillate wildly

Correct