- c. 3
- ☑ d. 4 🗸

Your answer is correct.

Please, join Slack channel (link) if you have any questions regarding the assignment. The correct answer is:

Question **5**

This question refers to **the student task #3** in the "FL Design Principle" assignment.

The coding assignment required you to learn local model parameters by solving an instance of GTV minimization for different values of the regularization parameter α . How does the average local loss (training error) of the learnt model parameter vary with increasing α ?

- \square a. The training error cannot increase with increasing α .
- \square b. The training error might increase with increasing α .

Your answer is correct.

Increasing the GTVMin parameter alpha forces the solutions of GTVMin to have a smaller total variation, i.e., to be approximately constant at connected nodes of the empirical graph. This restriction of local model parameters might counter-act the minimization of the local average loss (training error). Note that GTVMin is an instance of regularized empirical risk minimization. For more discussion of the effect of increasing regularization strength see Section 7.1 of this book.

The correct answer is: The training error might increase with increasing α .

Finish review

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Correct

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Nguyen Binh (Log out)

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