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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 13 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 13

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You have trained a deep neural network model on Google Cloud. The model has low loss on the training data, but is performing worse on the validation data. You want the model to be resilient to overfitting. Which strategy should you use when retraining the model?

- A. Apply a dropout parameter of 0.2, and decrease the learning rate by a factor of 10.
- B. Apply a L2 regularization parameter of 0.4, and decrease the learning rate by a factor of 10.
- C. Run a hyperparameter tuning job on AI Platform to optimize for the L2 regularization and dropout parameters.
- D. Run a hyperparameter tuning job on AI Platform to optimize for the learning rate, and increase the number of neurons by a factor of 2.

Show Suggested Answer

by [deleted] at June 2, 2021, 9:56 p.m.

Comments

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Lead of the English State of
Should be C https://machinelearningmastery.com/introduction-to-regularization-to-reduce-overfitting-and-improve-generalization-error/
proted 26 times
inder0007 Highly Voted 3 years, 5 months ago
increasing the size of the network will make the overfitting situation worse
pupoted 7 times
Selected Answer: C Voted C
Sum_Sum 11 months, 3 weeks ago
Selected Answer: C
A,B have very specific numbers which doesn't gurantee success C is best
D - increases the size - which is not helping with overfitting
upvoted 2 times
harithacML 1 year, 4 months ago
Selected Answer: C
Req: make model resilient
A. Apply a dropout parameter of 0.2, and decrease the learning rate by a factor of 10.: Might / might not work. But may not find optimal parameter set since it uses random values
B. Apply a L2 regularization parameter of 0.4, and decrease the learning rate by a factor of 10. : Might / might not work . But
may not find optimal parameter set since it uses random values
C. Run a hyperparameter tuning job on AI Platform to optimize for the L2 regularization and dropout parameters. : 12 and dropout are regularisation method which would work. Let AI find the optimal solution on how extend these parameters should
regularise. Yes this would work.
D. Run a hyperparameter tuning job on Al Platform to optimize for the learning rate, and increase the number of neurons by a
factor of 2 : Alplatform would do but adding neurons would make network nore complex. So we can eliminate this option.
upvoted 3 times
upvoted 3 times ashu381 1 year, 5 months ago
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- by options eliminations C,D are better than A,D (more automated, scalable) - between C,D C is better as in D "and increase the number of neurons by a factor of 2" will make matters worse and increase overfitting upvoted 1 times ■ Mohamed_Mossad 2 years, 4 months ago also in A,D mainly learning rate has no direct relation with overfitting upvoted 1 times ■ morgan62 2 years, 7 months ago Selected Answer: C C for sure upvoted 2 times 🖃 🚨 giaZ 2 years, 8 months ago Selected Answer: C Best practice is to let a Al Platform tool run the tuning to optimize hyperparameters. Why should I trust values in answers A or B?? Plus L2 regularization and dropout are the way to go here. upvoted 2 times acaohieu04 2 years, 8 months ago Selected Answer: C Community vote upvoted 2 times 🖃 🏜 wences 2 years, 9 months ago Selected Answer: C it is the logical ans upvoted 3 times 🖃 🏜 stefant 2 years, 9 months ago

Selected Answer: C

regularization and dropout

upvoted 3 times

■ NamitSehgal 2 years, 10 months ago

Increasing Neurons or layers / network will increase overfitting, it is good for under fitting. C should be fine.

upvoted 2 times

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