

Overfitting and regularization

测验, 4 个问题

1
point

1。

Select correct statements about overfitting:

- ☐ Overfitting happens when model is too simple for the problem
 - ☐ Overfitting is a situation where a model gives comparable quality on new data and on a training sample
 - ☒ Overfitting is a situation where a model gives lower quality for new data compared to quality on a training sample
 - ☒ Large model weights can indicate that model is overfitted
-

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2。

What disadvantages do model validation on holdout sample have?

- ☒ It can give biased quality estimates for small samples
 - ☒ It is sensitive to the particular split of the sample into training and test parts
 - ☐ It requires multiple model fitting
-

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3。

Suppose you are using k -fold cross-validation to assess model quality. How many times should you train the model during this procedure?

- ☐ 1
 - ☒ k
 - ☐ $k(k - 1)/2$
 - ☐ k^2
-

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4。

Select correct statements about regularization:

- ☐ Weight penalty reduces the number of model parameters and leads to faster model training
 - ☒ Weight penalty drives model parameters closer to zero and prevents the model from being too sensitive to small changes in features
 - ☒ Regularization restricts model complexity (namely the scale of the coefficients) to reduce overfitting
 - ☐ Reducing the training sample size makes data simpler and then leads to better quality
-



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