

✔ Congratulations! You passed!

Grade received 80%

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To pass 80% or higher

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1. Underfitting is bad because

1 / 1 point

- ☒ It cannot capture complex behavior and will have inherent error
- ☐ The predicted value is always less than the true value

✔ **Correct**

2. Overfitting is bad because

1 / 1 point

- ☒ The model that is overfit will learn noise
- ☐ The model is too big

✔ **Correct**

3. Variance of a model is related to

0 / 1 point

- ☒ A model's ability to adapt its parameters to training data
- ☐ The sensitivity of the model to the inputs

✘ **Incorrect**

All class of algorithms that depend on data to formulate a model have the ability to change the model parameters based on the data.

4. AIC is a primarily a non-Bayesian metric

1 / 1 point

☒ True

☐ False

☒ **Correct**

5. KL Divergence is a distance metric

0 / 1 point

☒ True

☐ False

☒ **Incorrect**

6. The symmetric version of the KL Divergence is

1 / 1 point

☐ Jensen Button Divergence

☒ Jensen Shannon Divergence

☒ **Correct**

7. Entropy is a measure of

1 / 1 point

☐ Information symmetry

☒ Information uncertainty

☒ **Correct**

8. The WAIC is the Bayesian extension to the AIC

1 / 1 point

☒ True

☐ False

 **Correct**

9. For Deviance of models, a well-fit model has a value

1 / 1 point

- ☐ Infinity
- ☒ Close to 0

 **Correct**

10. The value of R^2 for a model that perfectly fits the data is

1 / 1 point

- ☒ 1
- ☐ 0

 **Correct**