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Started on	Friday, 11 November 2022, 1:13 PM
State	Finished
Completed on	Friday, 11 November 2022, 1:15 PM
Time taken	1 min 43 secs
Grade	5.00 out of 5.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Match

Ordinary least squares	No regularization, prone to overfitting	✓
Lasso regression	Induces sparsity, useful for feature selection	✓
Ridge regression	Weight decay, shrinkage	✓

Your answer is correct.

The correct answer is:

Ordinary least squares → No regularization, prone to overfitting,

Lasso regression → Induces sparsity, useful for feature selection,

Ridge regression → Weight decay, shrinkage

Question 2

Correct

Mark 1.00 out of 1.00

Match

For training use the

training set. ▾



For hyper-parameter tuning use the

validation (dev) set. ▾



Other than to the training set, the model may over-fit even to the

validation (dev) set. ▾



The set that must not be seen at all in the training phase is the actual

test set. ▾



For actual evaluation of the model finally use the

test set. ▾



It is good to have the researcher's own

test set. ▾



Your answer is correct.

The correct answer is:

For training use the → training set., For hyper-parameter tuning use the → validation (dev) set.,

Other than to the training set, the model may over-fit even to the → validation (dev) set.,

The set that must not be seen at all in the training phase is the actual → test set.,

For actual evaluation of the model finally use the → test set.,

It is good to have the researcher's own → test set.

Question 3

Correct

Mark 1.00 out of 1.00

Choose parametric vs non-parametric

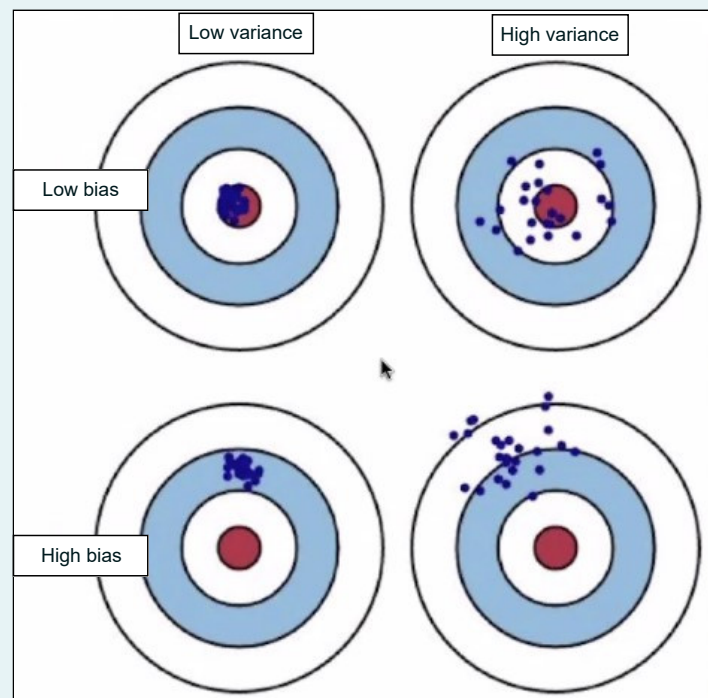
	Parametric	Non-Parametric	
Deep nets	<input checked="" type="radio"/> ✓	<input type="radio"/> ✗	✓
Linear regression	<input checked="" type="radio"/> ✓	<input type="radio"/> ✗	✓
KNN	<input type="radio"/> ✗	<input checked="" type="radio"/> ✓	✓
GPs	<input type="radio"/> ✗	<input checked="" type="radio"/> ✓	✓
Kernel SVM	<input type="radio"/> ✗	<input checked="" type="radio"/> ✓	✓

Question 4

Correct

Mark 1.00 out of 1.00

Drag and drop text



Your answer is correct.

Question 5

Correct

Mark 1.00 out of 1.00

The optimal solution can be obtained in one step in a Closed Form Optimization Process.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

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Assignment 1 ▶

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