
MEAN SQUARED ERROR (1 point possible)

Mean squared error (MSE) is typically used to evaluate regression models.

☒ True

☐ False

CHECK

FEATURE VISUALIZATION (1 point possible)

In "Visualization 1: Features" features 8 and 9:

☐ Have similar variation

☐ Feature 8 varies more than feature 9

☒ Feature 9 varies more than feature 8

CHECK

OVERFITTING (1 point possible)

Select the true statements regarding overfitting:

☒ Regularization is used to protect against overfitting

☐ In the lab, we strongly overfit the data

Note: Make sure you select all of the correct options—there may be more than one!

CHECK

GRID SEARCH (1 point possible)

Select the true statements about grid search:

☒ We should conduct a new grid search if we add new features

☐ We can overfit the validation dataset during grid search

☐ Grid search is computational cheap

Note: Make sure you select all of the correct options—there may be more than one!

CHECK

GRID SEARCH VISUALIZATION (1 point possible)

In "Visualization 6: Hyperparameter heat map", the best performing models are found in the:

☐ Top-left quadrant

☐ Top-right quadrant

☐ Bottom-left quadrant

☐ Bottom-right quadrant

?

CHECK

QUADRATIC FEATURES (1 point possible)

What, if any, impact did quadratic features have on validation error relative to the best model from the grid search you performed?

- ☐ None at all
- ☐ They increased RMSE by over a year
- ☒ They decreased RMSE by over a year

CHECK

FINAL MODEL (1 point possible)

How did the final model's RMSE compare between the validation and test sets?

- ☐ RMSE was the same
- ☐ RMSE on the validation set was higher
- ☒ RMSE on the test set was higher

CHECK

SURVEY: LAB3 COMPLETION TIME (1 point possible)

How long did Lab THREE take you to complete (in hours - decimals are OK)?

3-4

3 – 4

Please click "Check" to save your answer.

CHECK

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