https://www.coursera.org/learn/data-analysis-with-python/assignment-submission/t7ohj/practice-quiz-model-evaluation-and-refinement/view-feedback

Your grade: 100% Next item $\, o \,$ Your latest: 100% • Your highest: 100% • To pass you need at least 70%. We keep your highest score. 1. What function randomly splits a data set into training and testing subsets? 1/1 point train_test(split=x) cross_val_predict() cross_val_score() train_test_split() **⊘** Correct Correct! The function train_test_split() randomly splits a data set into training and testing subsets. 2. Consider the model in blue and the samples in blue dots. Which model has the best fit? 1/1 point Degree 1 MSE = 1.11e+00(+/- 1.19e+00) Model
True function — True function — True functi Samples Samples b С O a **⊘** Correct Correct! The model seems to fit the data well. 3. In the following plot, the vertical axis shows the mean square error, and the horizontal axis represents the 1/1 point order of the polynomial. The red line represents the training error, and the blue line is the test error. Which order polynomial does this plot indicate you should use for your model? **Test Error** Error MSE Training Error 16 Order 2 **⊘** Correct Correct! You should use the test error to help you determine the order of your model. 4. The following models were all trained on the same data. Select the model with the highest alpha value. 1/1 point Model
 True function
 Samples Model
True function Alpha= 0.01 Model
True function Alpha= 10 -0.5 -1.0 --1.5 -2.0 -0.75 -0.50 -0.25 0.00 0.25 0.50 0.75 1.00 С а C **⊘** Correct Correct! The highest alpha value is usually the model with the most underfitting. 5. The following models were all trained on the same data. Select the model with the lowest value for alpha. 1/1 point Model
True function Model
True function Alpha= 10 -1.5 C a **⊘** Correct Correct! The lowest alpha value is usually the model with the most overfitting.