Practice Quiz: Polynomial Regression
Practice Assignment • 10 min

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To pass you need at least 66%. We keep your highest score.

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1. What is the main goal of adding polynomial features to a linear regression? 1 / 1 point

- ○ Remove the linearity of the regression and turn it into a polynomial model.
- ◉ Capture the relation of the outcome with features of higher order.

  Correct! You can find more information in the Polynomial Regression lesson.
- ○ Increase the interpretability of a black box model.
- ○ Ensure similar results across all folds when using K-fold cross validation.

2. What is the most common sklearn methods to add polynomial features to your data? 1 / 1 point

Note: polyFeat = PolynomialFeatures(degree)

- ○ polyFeat.add and polyFeat.transform
- ○ polyFeat.add and polyFeat.fit
- ◉ polyFeat.fit and polyFeat.transform

  Correct! You can find more information in the Polynomial Regression lesson.
- ○ polyFeat.transform

3. How can you adjust the standard linear approach to regression when dealing with fundamental problems such as prediction or interpretation? 1 / 1 point

- ○ Create a class instance
- ◉ Add some non-linear patterns, i.e., polynomial features

  Correct! You can adjust the standard linear approach to regression by adding polynomial features when dealing with fundamental problems such as prediction or interpretation.
- ○ Import the transformation method
- ○ By transforming the data

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