




Microsoft: DAT203x Data Science and Machine Learning Essentials

- ▶ Before You Start
- ▶ Module 1: Introduction and Data Science Theory
- ▶ Module 2: Working with Data
- ▼ **Module 3: Visualization, and Building and Evaluating Models**
 - Chapter 13: Data Exploration and Visualization
 - Lab 3A: Exploring and Visualizing Data
 - Chapter 14: Building Models in Azure ML
 - Lab 3B: Building Models in Azure ML
 - Chapter 15: Model Evaluation, Comparison, and Selection
 - Lab 3C: Evaluating Models in Azure ML
 - Module 3 Review**
Homework due Oct 30, 2015 at 00:00 UTC 


- ▶ Module 4: Regression,

QUESTION 2 (1/1 point)


While exploring a dataset you discover a nonlinear relationship between certain features and the label.

Which two of the following feature engineering steps should you try before training a supervised machine learning model?

☐ Ensure the features are linearly independent.

☒ Compute new features based on polynomial values of the original features. 

☐ Compute mathematical combinations of the label and other features.

☒ Compute new features based on logarithms or exponentiation of these original features. 



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

EXPLANATION

When features have a nonlinear relationships with the label, you can engineer new features by converting the original features to polynomials, logarithms, or exponentials in order to try to find a more linear relationship that will work better in a linear model.

You have used 1 of 2 submissions

Classification,
and
Unsupervised
Learning

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