

ONLINE GRADIENT FOR LINEAR REGRESSION

Contents

Goals and Requirements	3
Dataset for Tune model Hyperparameter	€

Goals and Requirements

Estimated time to complete lab is 10-15 minutes

Goals

- 1. Implement and design a model for Predicting Vehicle Price using Gradient Descent.
- 2. Approach of using Linear Regression using Gradient Descent

Requirements:

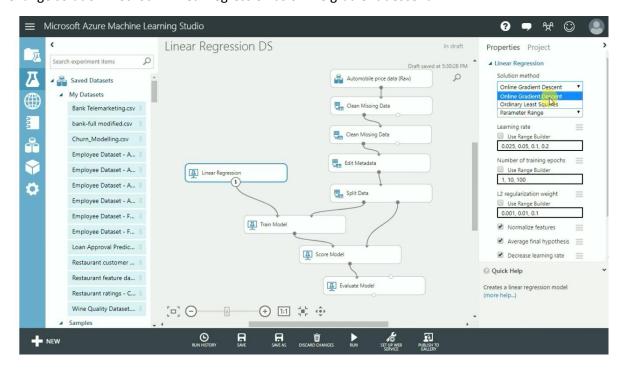
1. Access to an Azure Machine Learning Studio

Online Gradient For Linear Regression

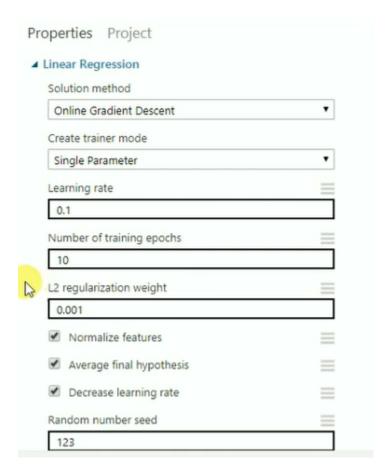
Copy previous example and place in canvas



Change solution method in linear regression as online gradient descent

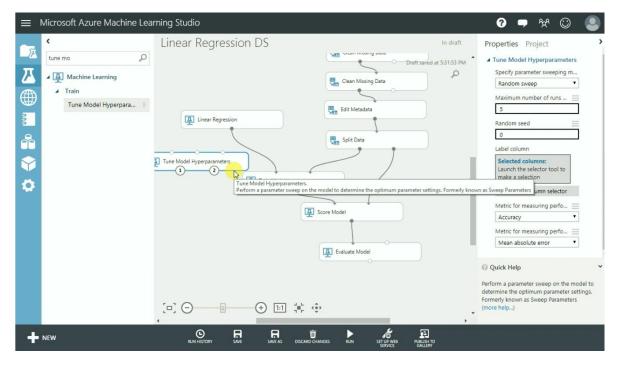


Change parameters as below

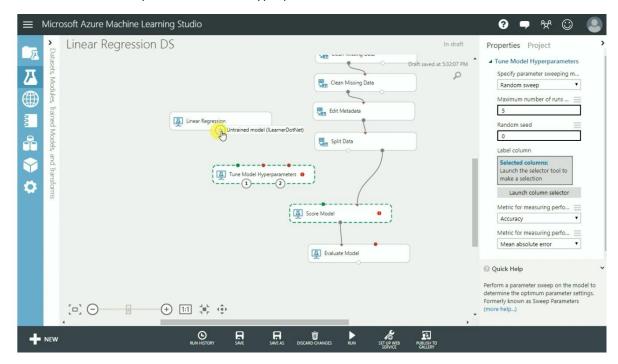


Dataset for Tune model Hyperparameter

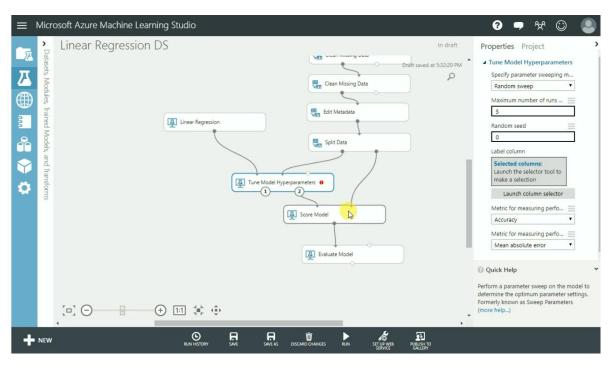
Search for tune model hyperparameter and place in canvas



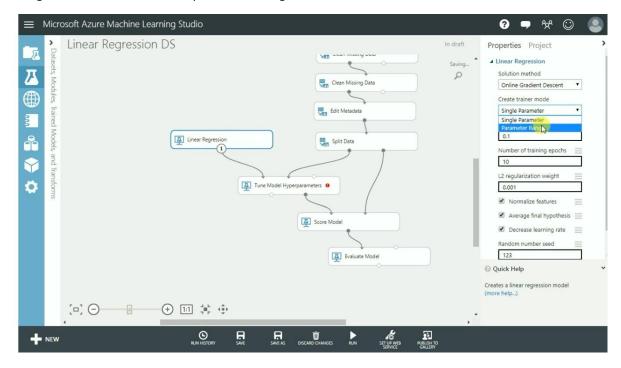
Delete trial model and place tune model hyperparameter there



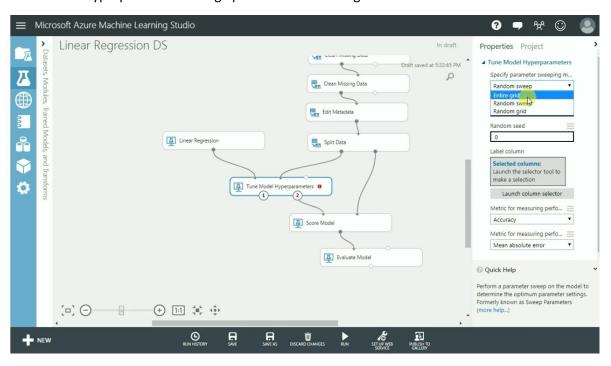
Connect the nodes as shown



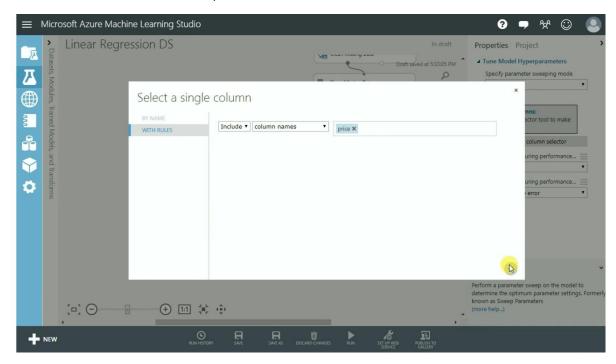
Change create trainer mode to parameter range



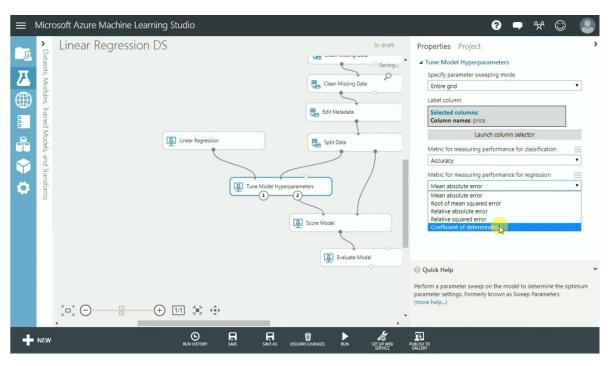
In tune model hyperparameter change parameter as Entire grid



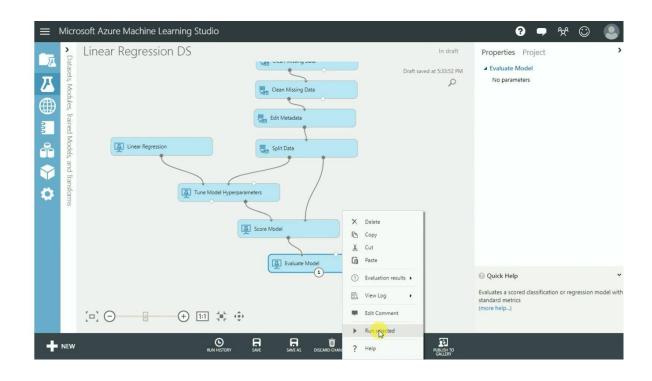
Launch column selector and select price label



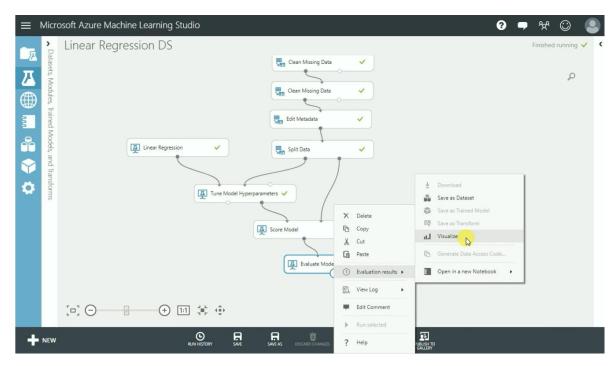
Select coefficient of determination



Run the experiment



Visualize the result



Thus, concludes how to build linear regression with online gradient

