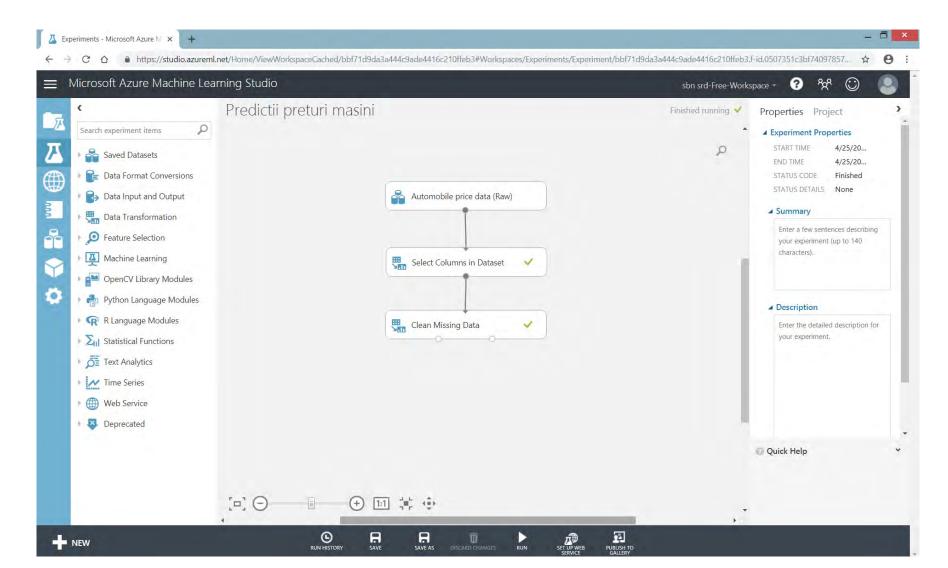
Database Management Systems

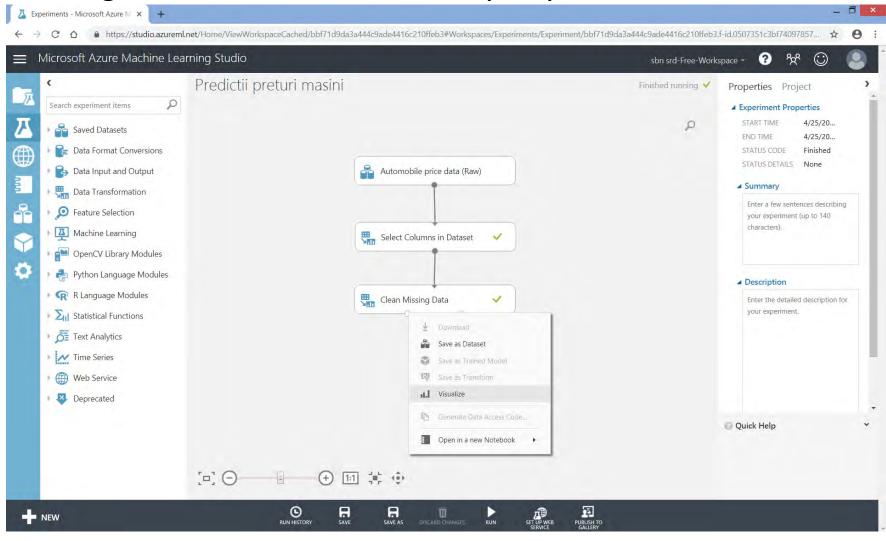
Azure Machine Learning*

* not among the exam topics

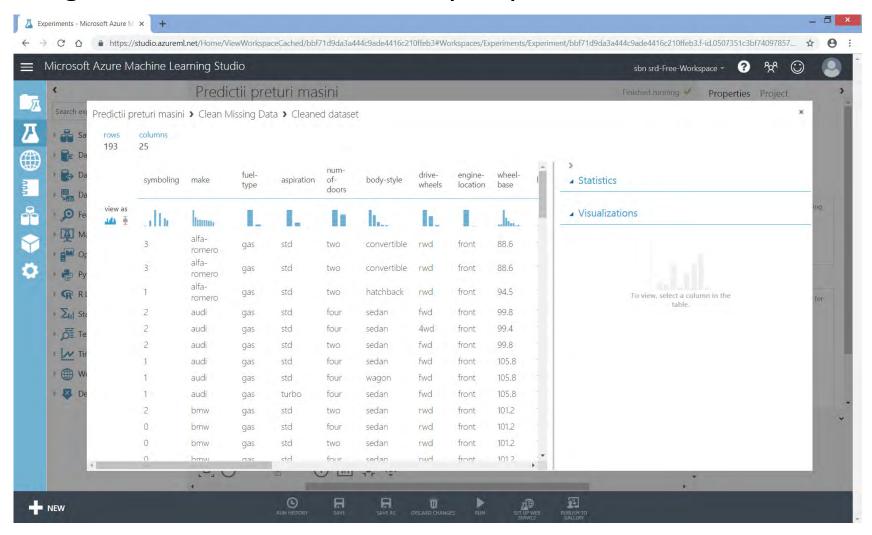
- * running the experiment
 - Run



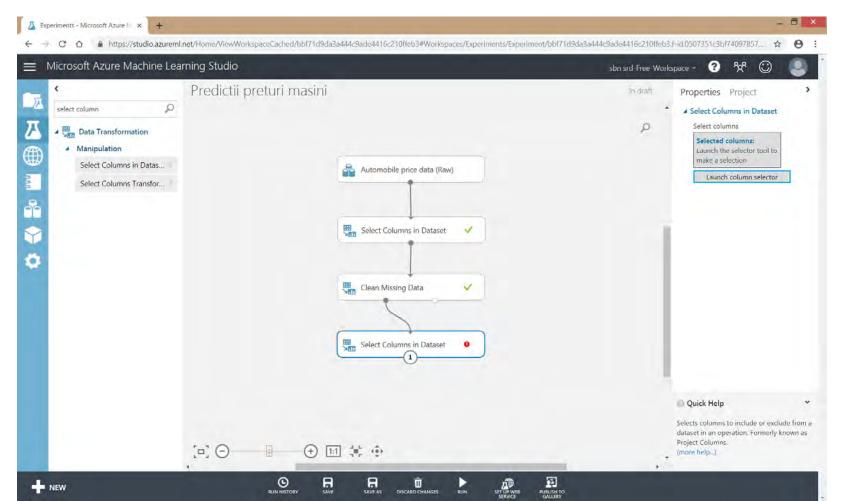
- * displaying the data
 - Clean Missing Data module -> left output port -> Visualize



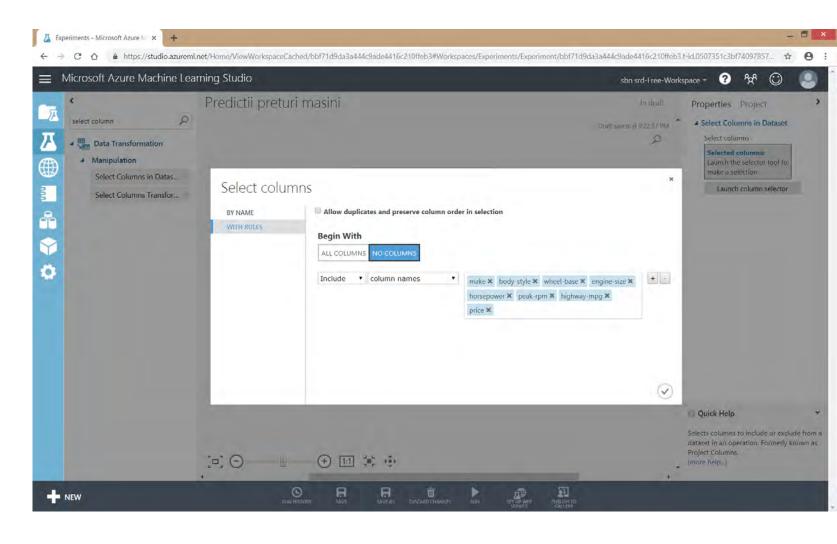
- * displaying the data
 - Clean Missing Data module -> left output port -> Visualize



- * defining the *features*
 - used to create the predictive model
 - Select Columns in Dataset module



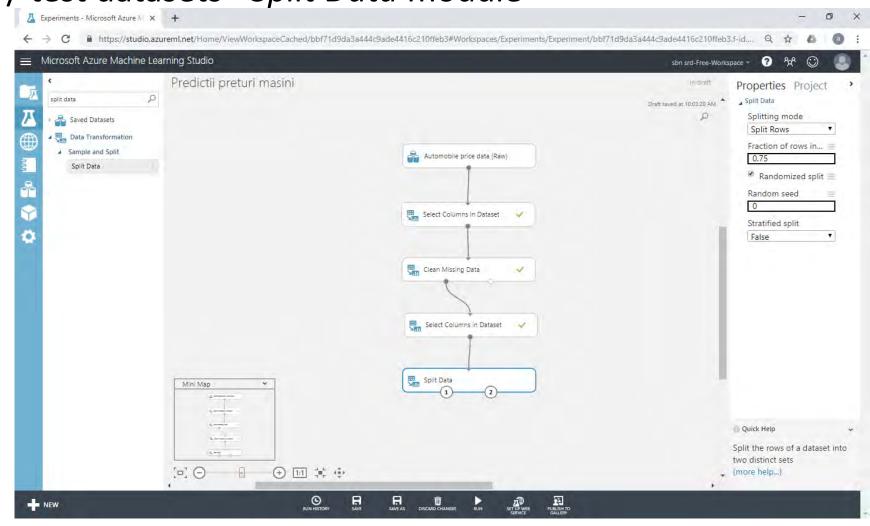
- * defining the *features*
- Select Columns in Dataset
 - Launch column selector
 - Begin With
 - No columns
 - Include
 - make, body-style, wheel-base, engine-size, horsepower, peak-rpm, highway-mpg, price



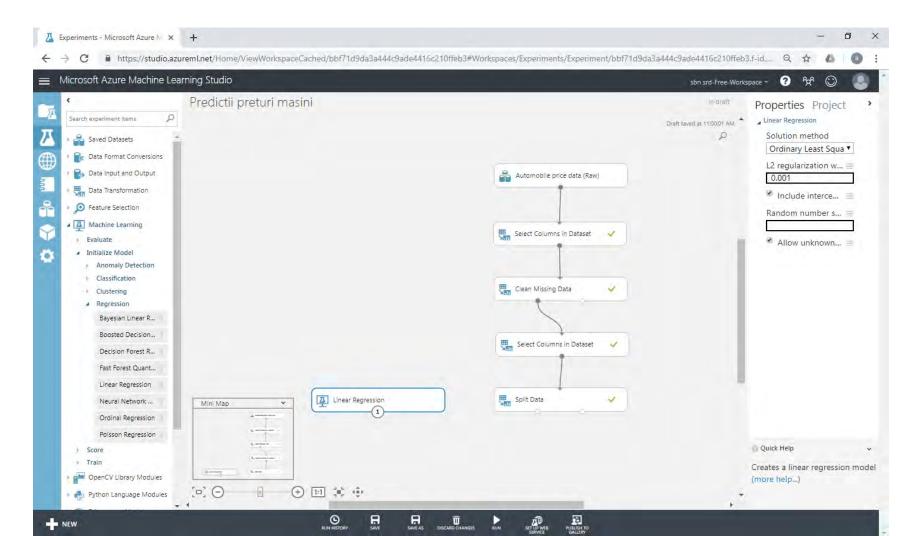
• goal: predict car price from selected features

- * choosing / applying the algorithm
 - create the training dataset and the test dataset
 - training dataset
 - dataset that includes the car price
 - the model is trained on this dataset
 - it searches for correlations between a car's features and its price
 - test dataset
 - dataset that includes the car price
 - the model is tested on this dataset
 - the price estimated by the model for each car is compared with the real price

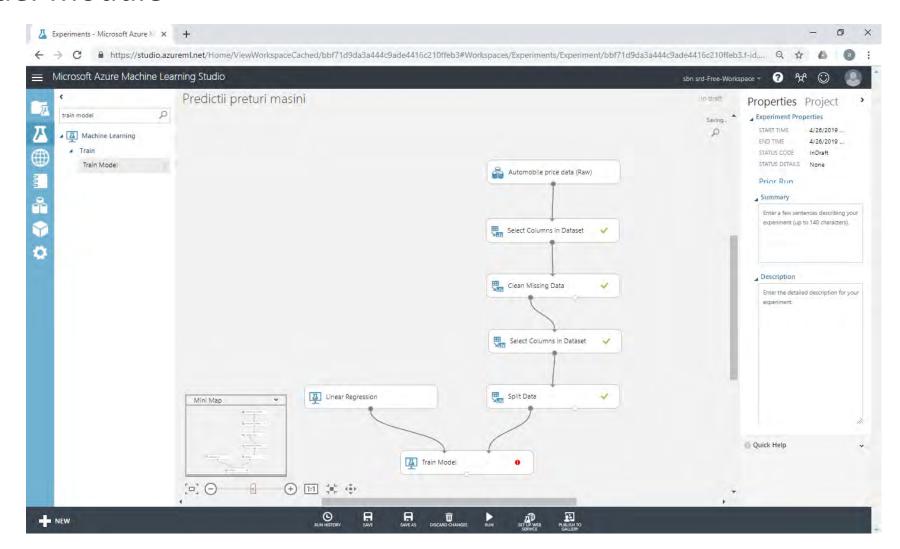
- * choosing / applying the algorithm
 - create the training / test datasets Split Data module
- Split Data
 - Fraction of rows in the first output dataset
 - 0.75
 - i.e., training dataset 75% of the data
- Run experiment



- * choosing / applying the algorithm
 - Machine Learning -> Initialize Model -> Regression -> Linear Regression

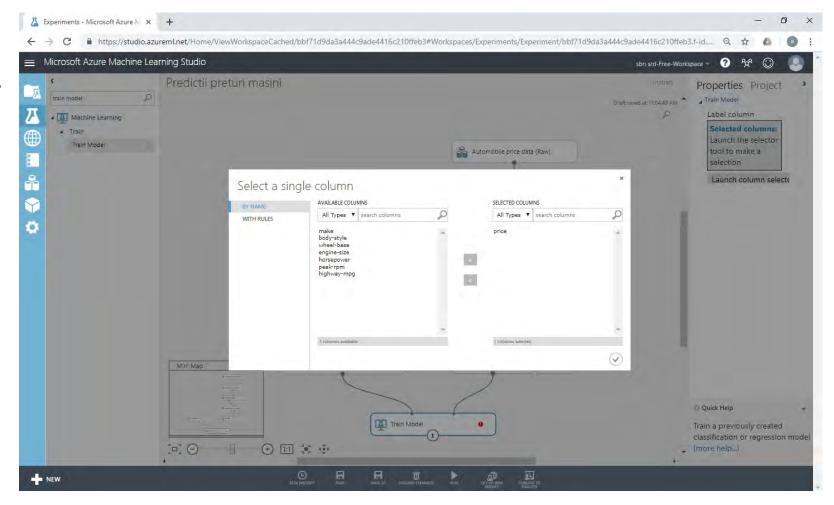


- * choosing / applying the algorithm
 - Train Model module

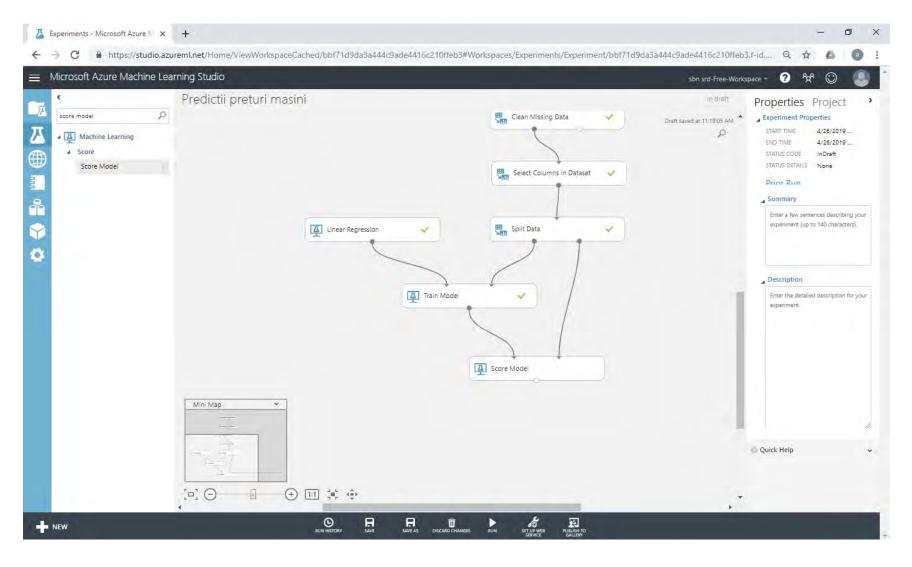


* choosing / applying the algorithm

- Train Model
 - Launch column selector
 - move column price from Available columns to Selected columns
- Run experiment

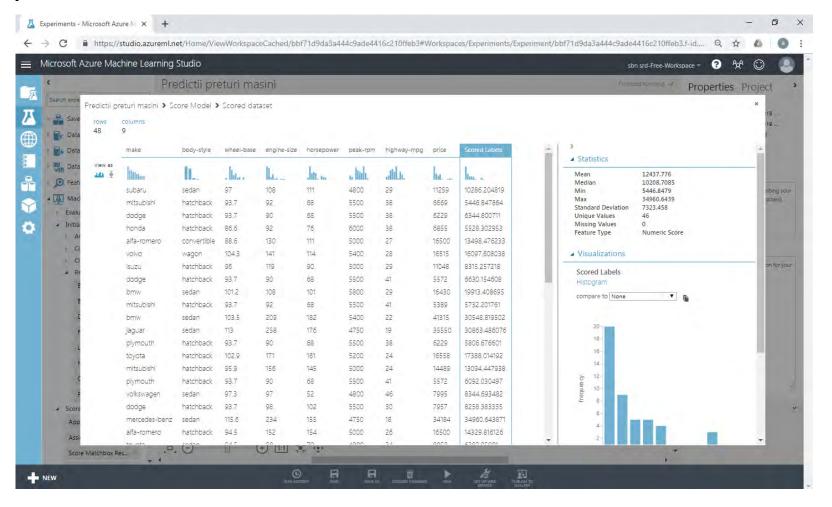


- * testing the model Score Model module
- Run experiment



- * testing the model
 - Score Model output port-> Visualize

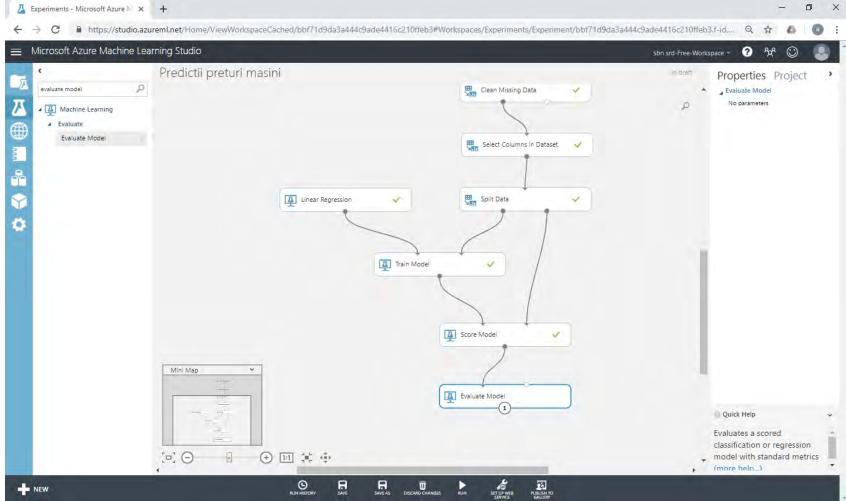
estimated / actual values for the price column



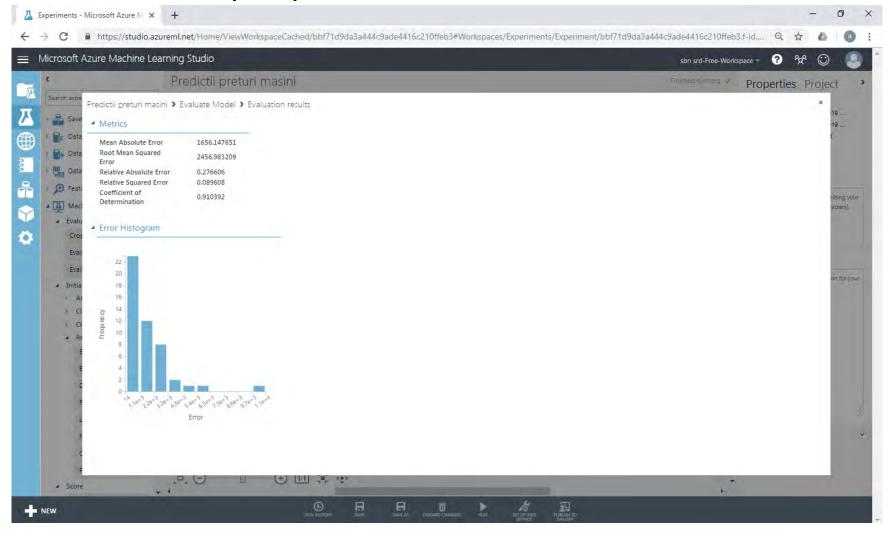
- * testing the model
 - Evaluate Model module

• Run experiment

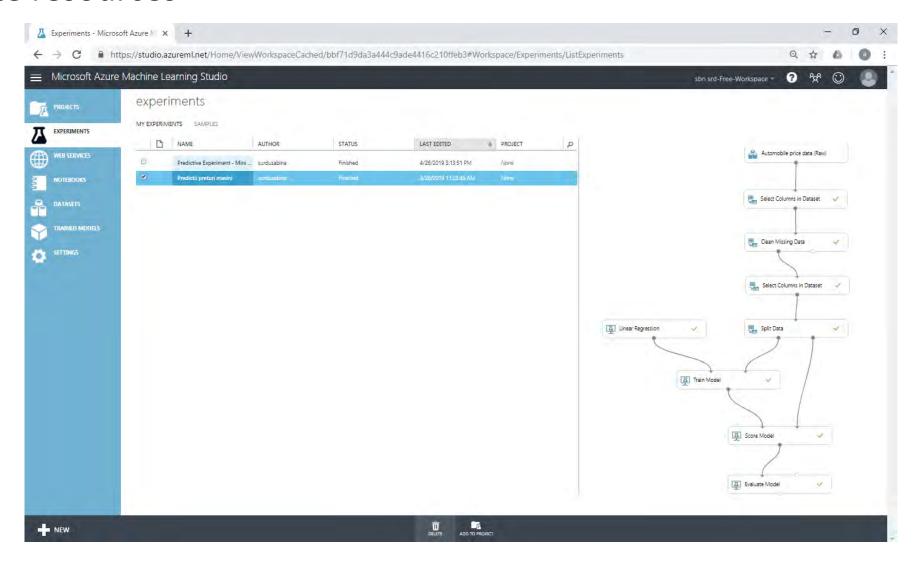
Experiments - Microsoft Azure N x +



- * testing the model
 - Evaluate Model output port -> Visualize



* eliminate resources



- * eliminate resources
 - delete workspace: Settings -> Delete

