Database Management Systems

Lecture 6

Azure Machine Learning*

Azure Stream Analytics*

* not among the exam topics

Azure Machine Learning

Azure Machine Learning

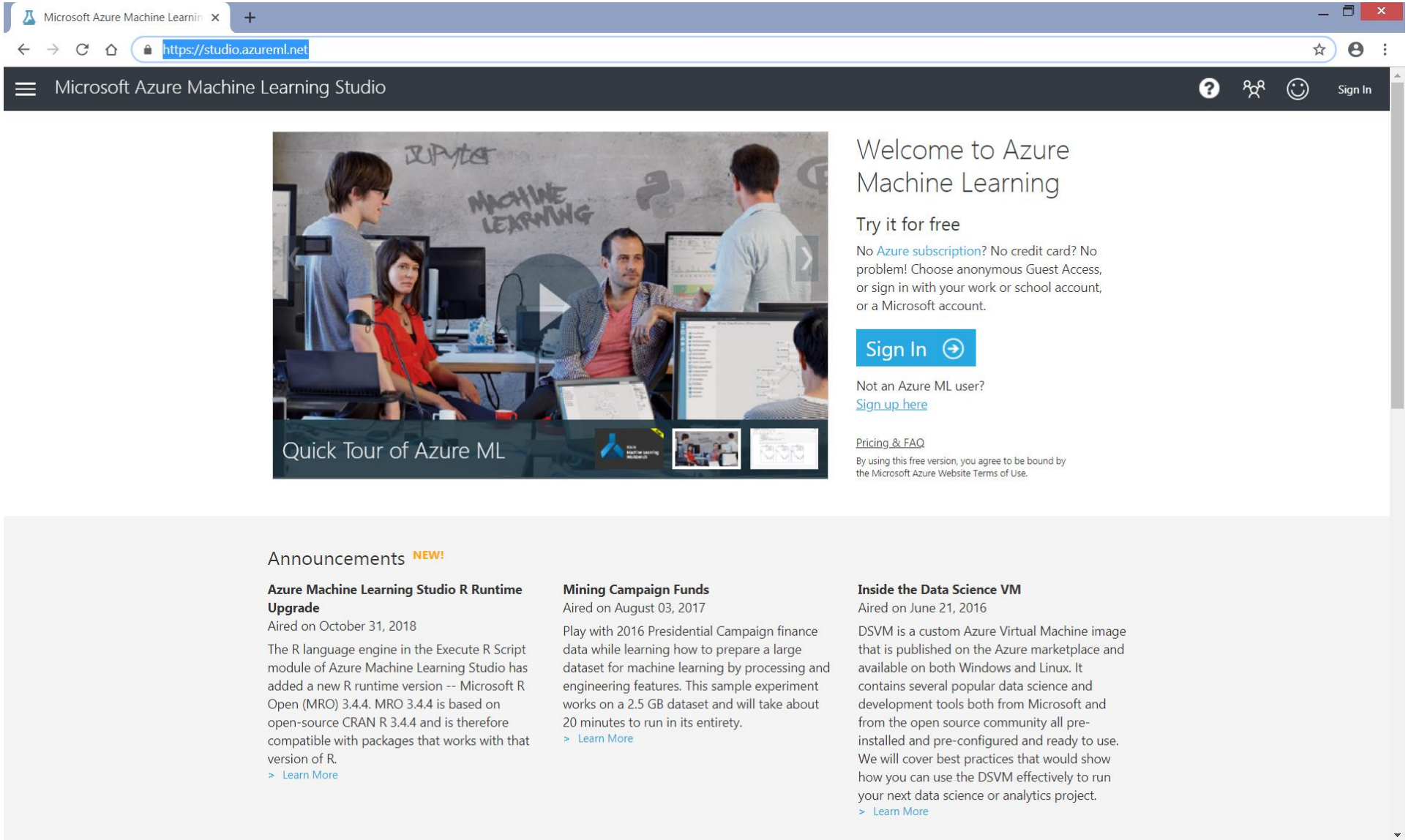
- build / train / deploy machine learning models
- Machine Learning Studio

* Machine Learning Studio

- create the model
  - obtain the data, prepare the data, define the features
- training
  - choose the algorithm, apply the algorithm
- testing the model
  - predict car prices for other vehicles
  - test the quality of the results

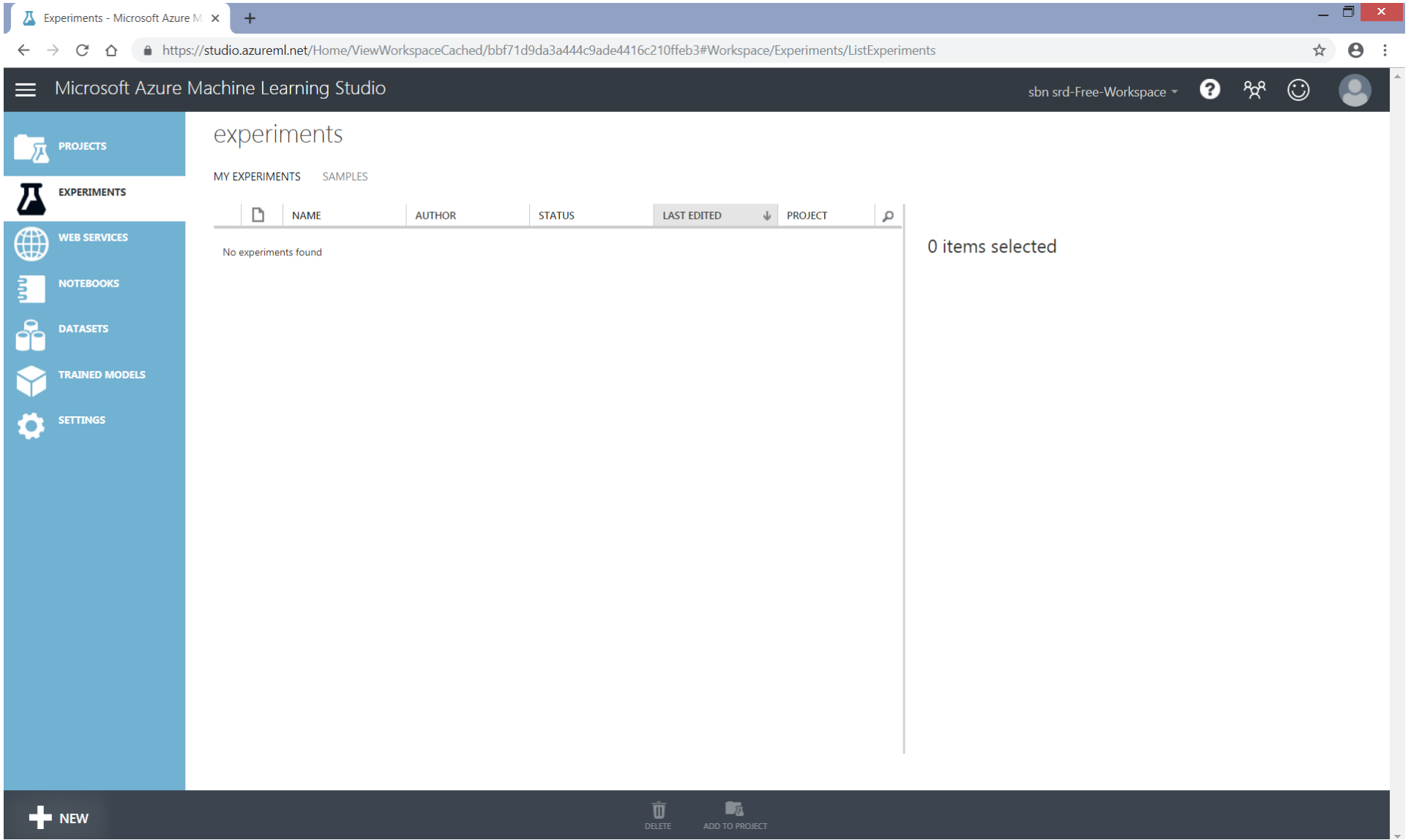
Data science Experiment – Car Price Prediction

- https://studio.azureml.net/ -> Sign in



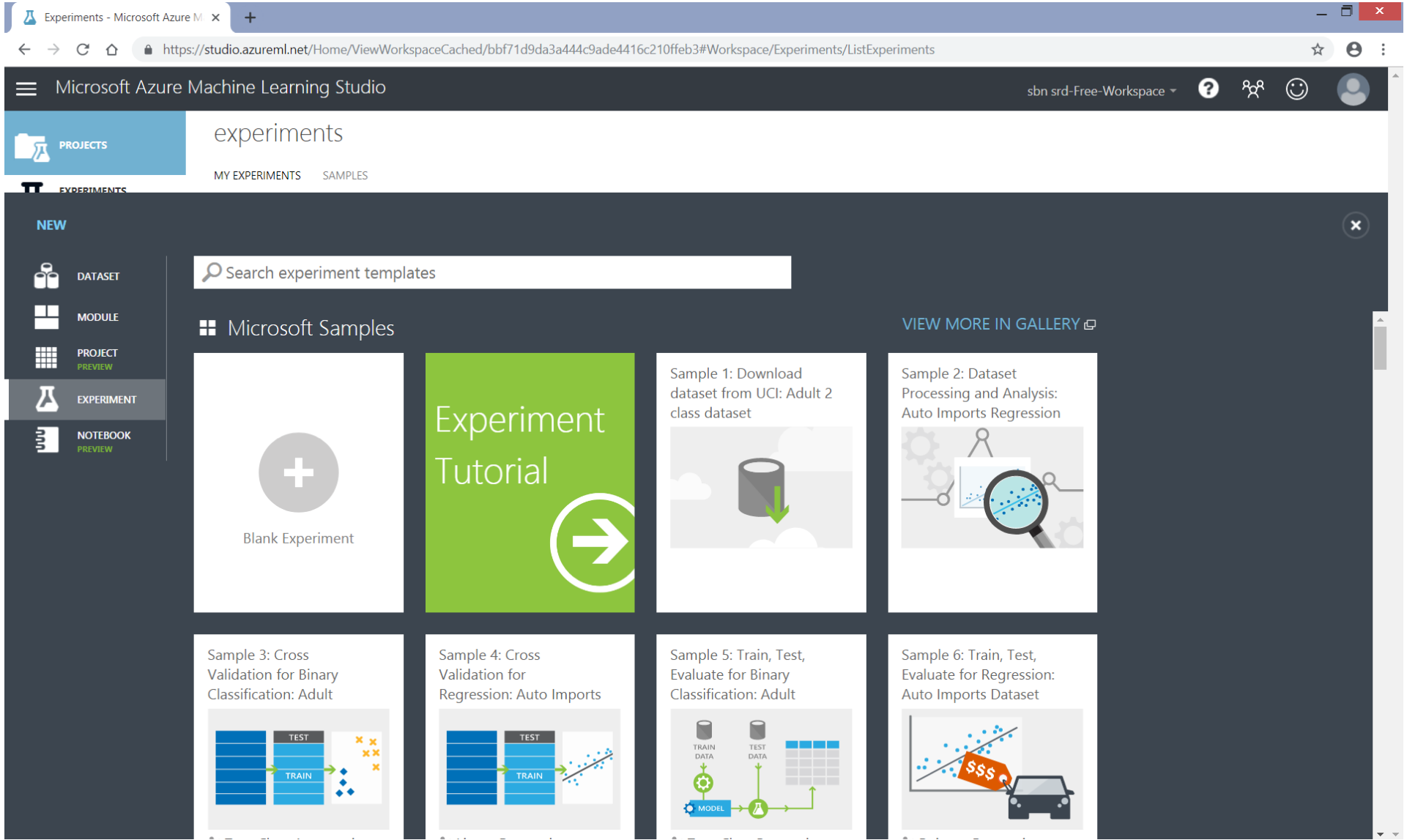
Car Price Prediction

* create an experiment: + New



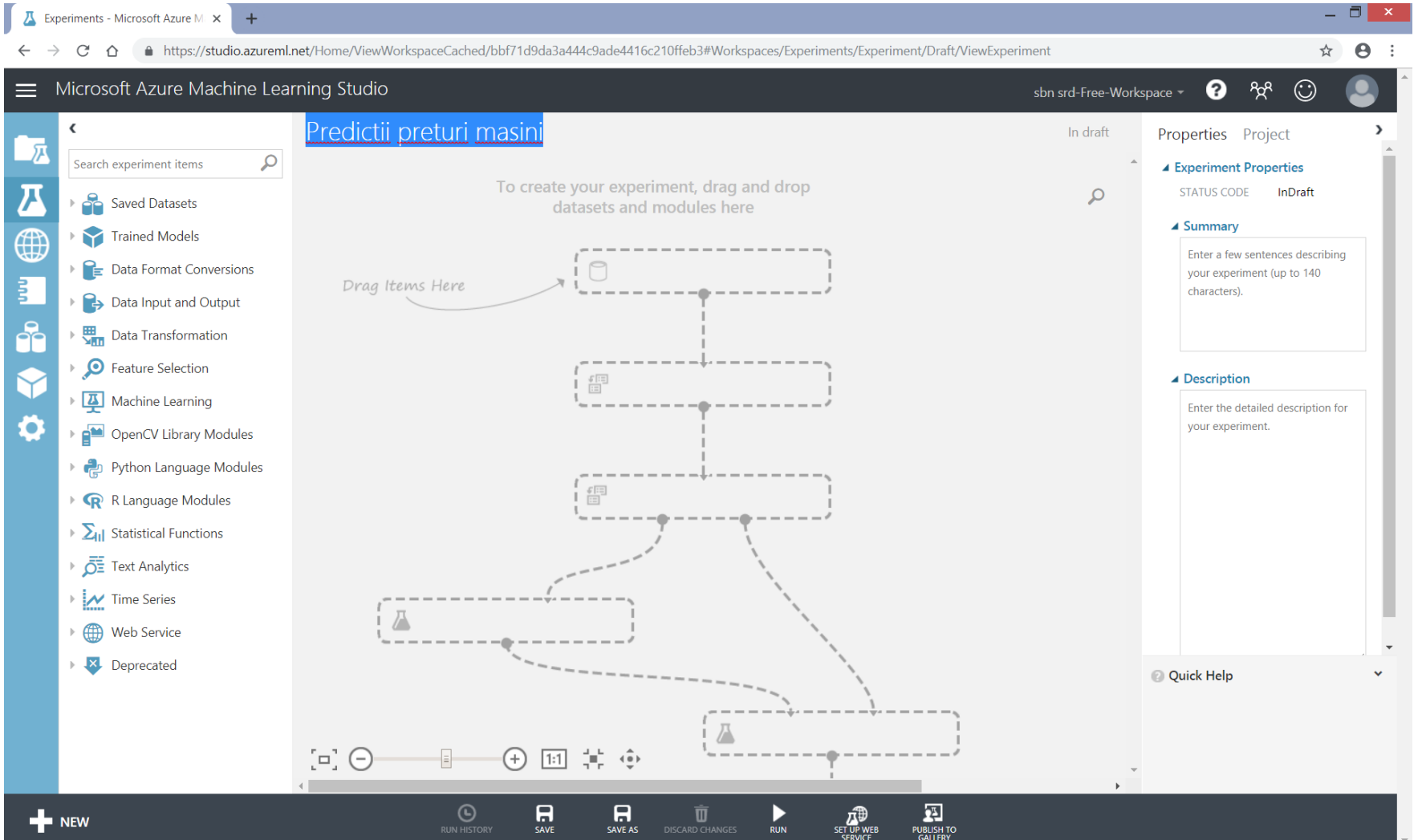
Car Price Prediction

* create an experiment: Blank Experiment



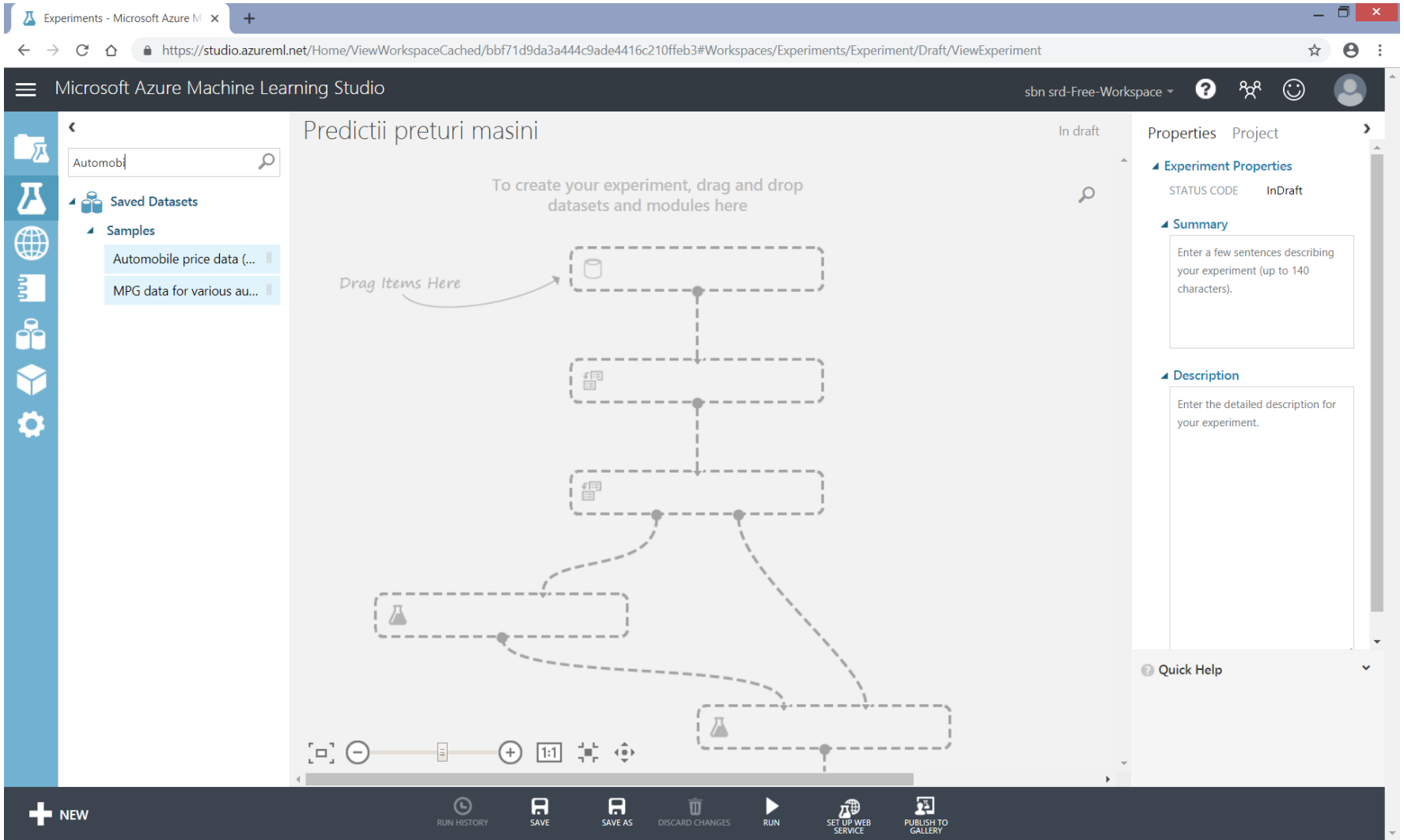
Car Price Prediction

* create an experiment
    - experiment name



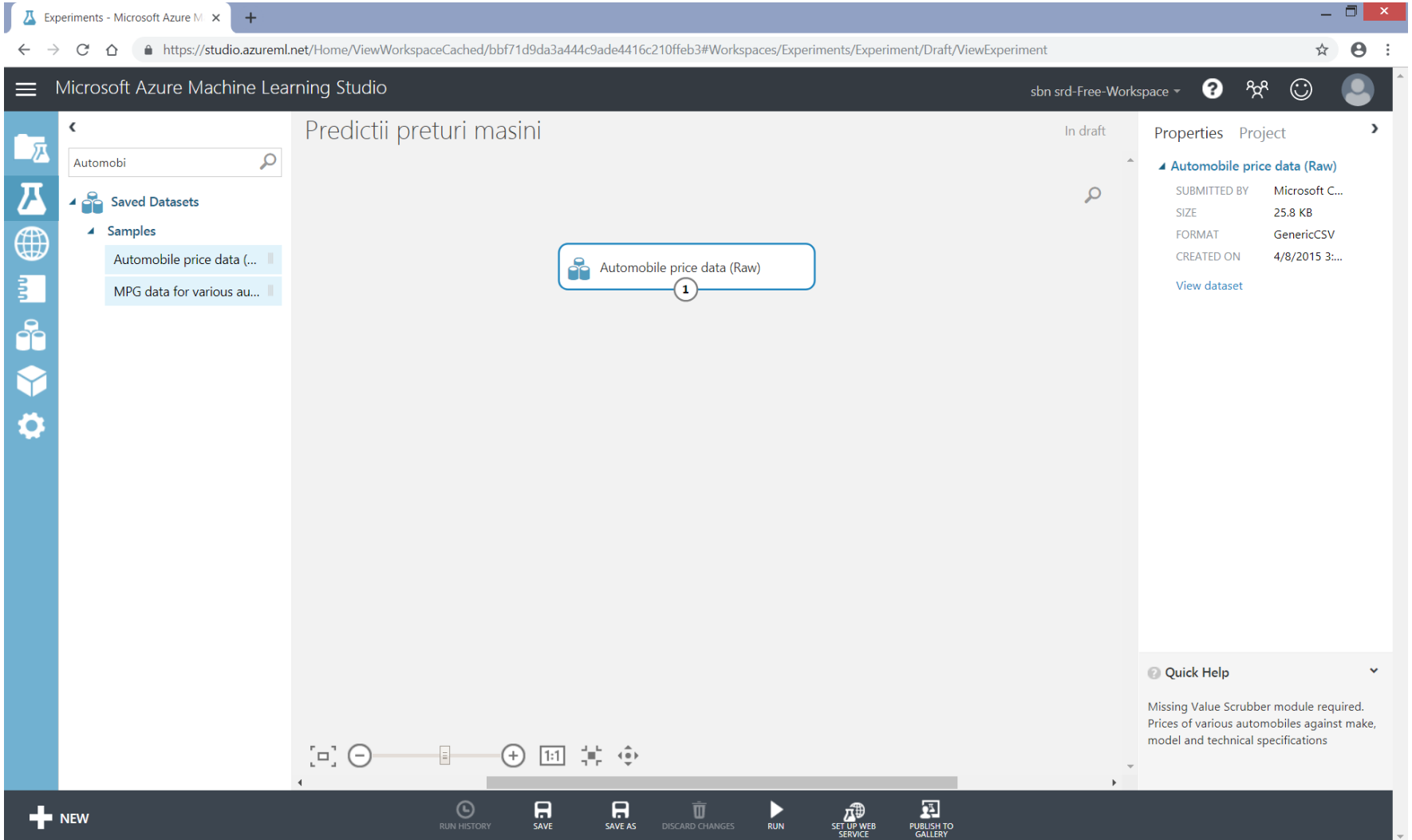
Car Price Prediction

* selecting the data source
  - dataset *Automobile price data (raw)*



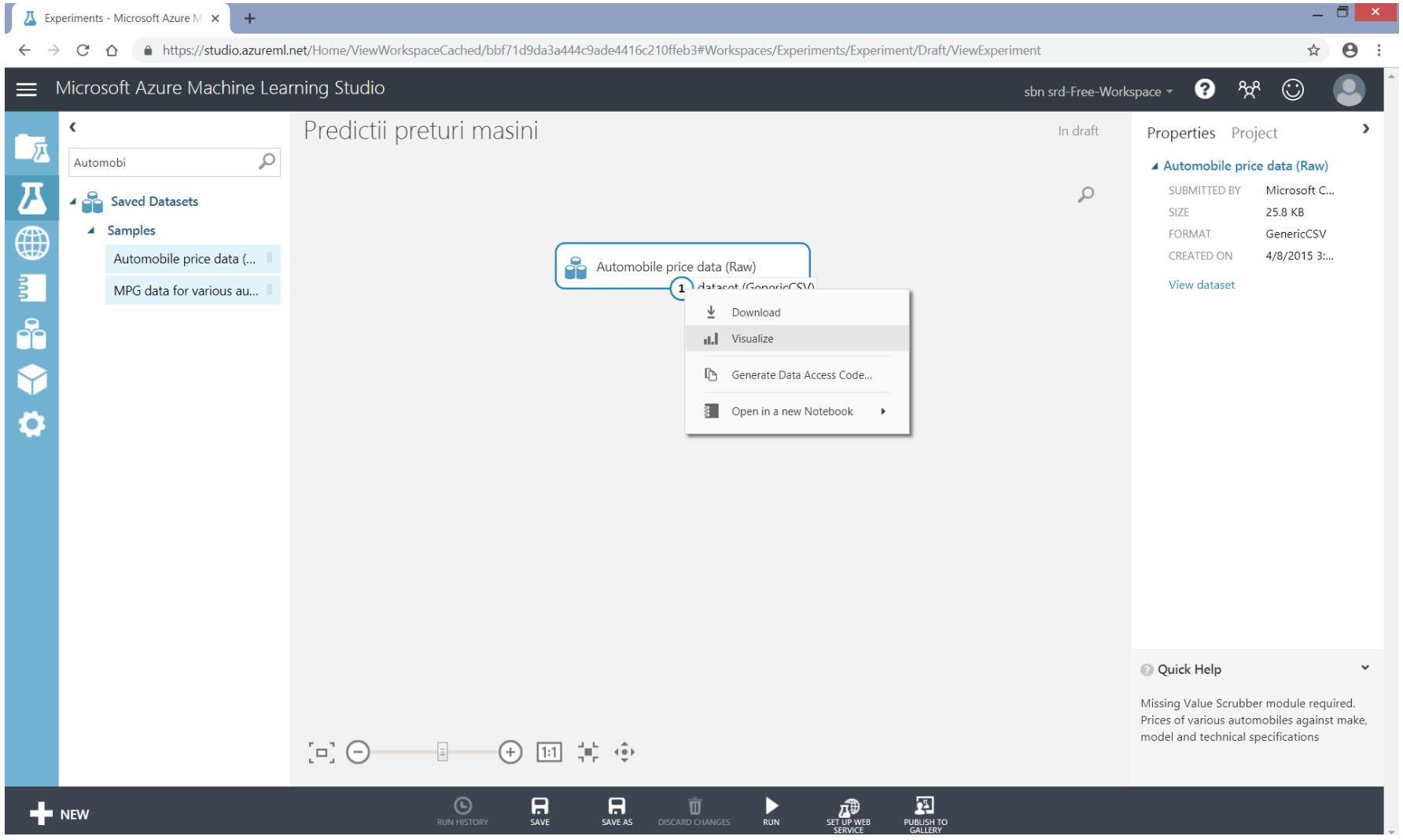
Car Price Prediction

* selecting the data source
  - drag & drop dataset *Automobile price data (raw)* onto the canvas



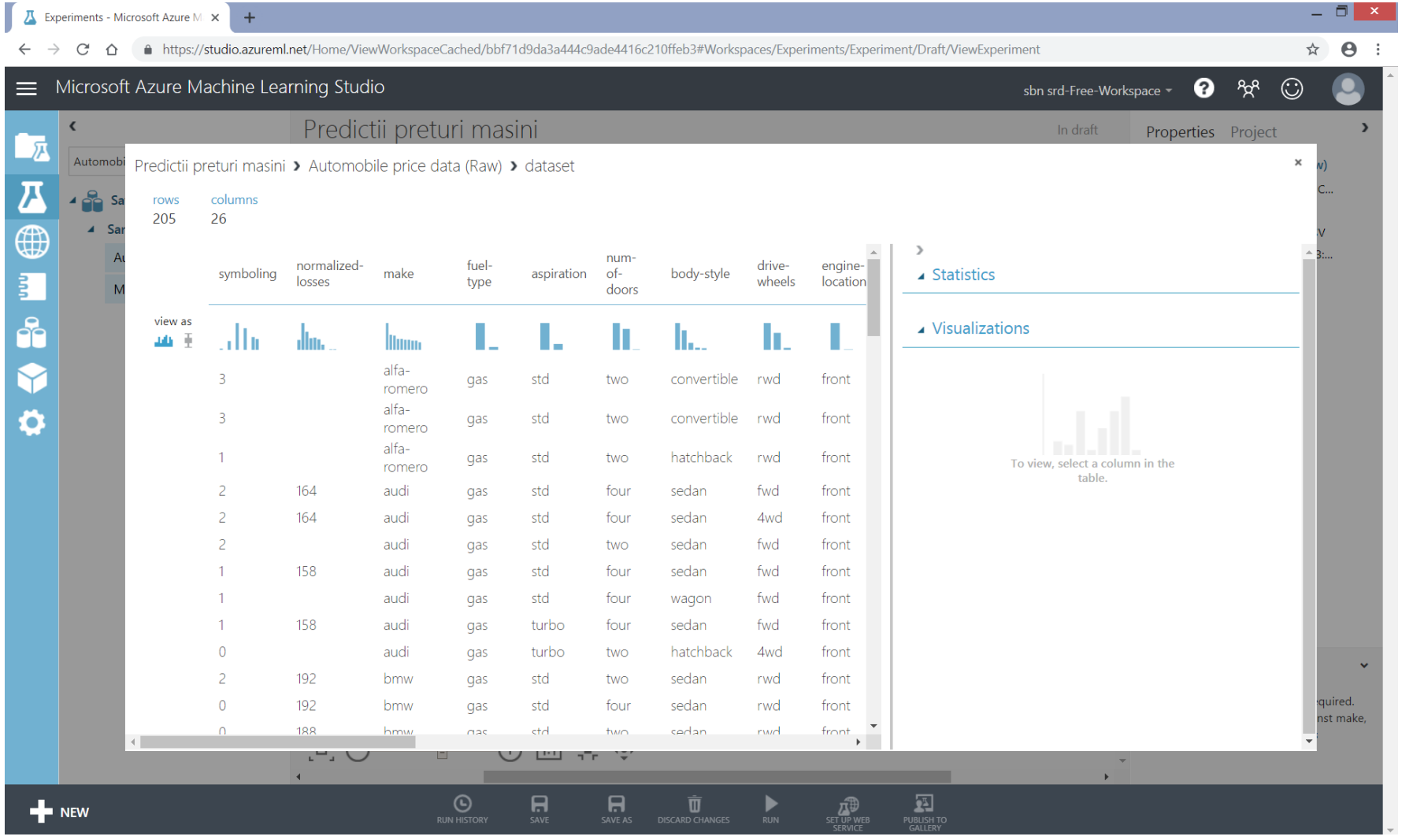
Car Price Prediction

* displaying the data
  - dataset output port -> *Visualize*



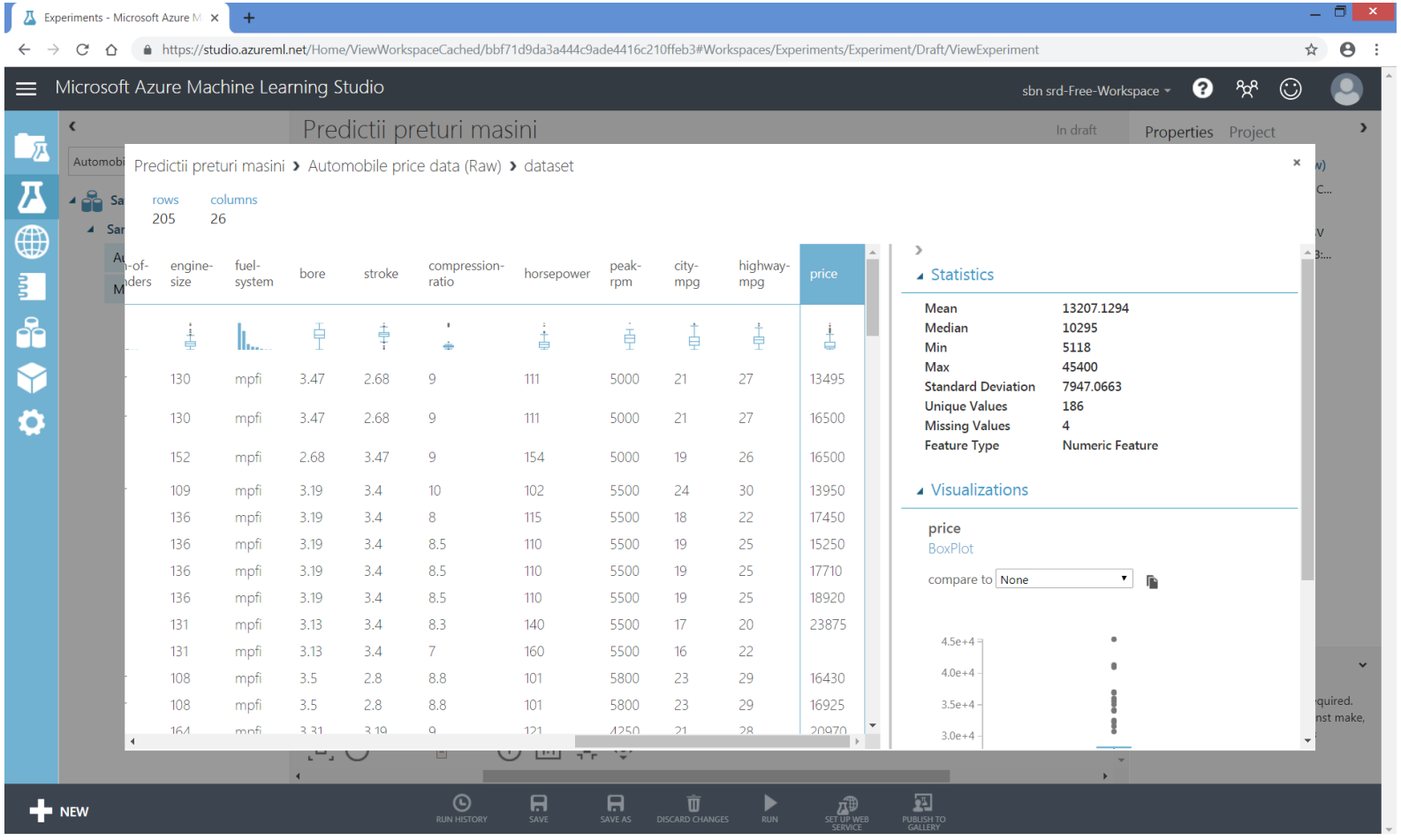
Car Price Prediction

* displaying the data
  - row – data about a car



Car Price Prediction

* displaying the data
  - columns – variables
  - *target* column - *price*



Car Price Prediction

* preparing the data
  - eliminate column with missing values – *normalized-losses*