



# DECISION TREE REGRESSION- BOOSTED



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# Goals and Requirements

Estimated time to complete lab is 20-25 minutes

## Goals

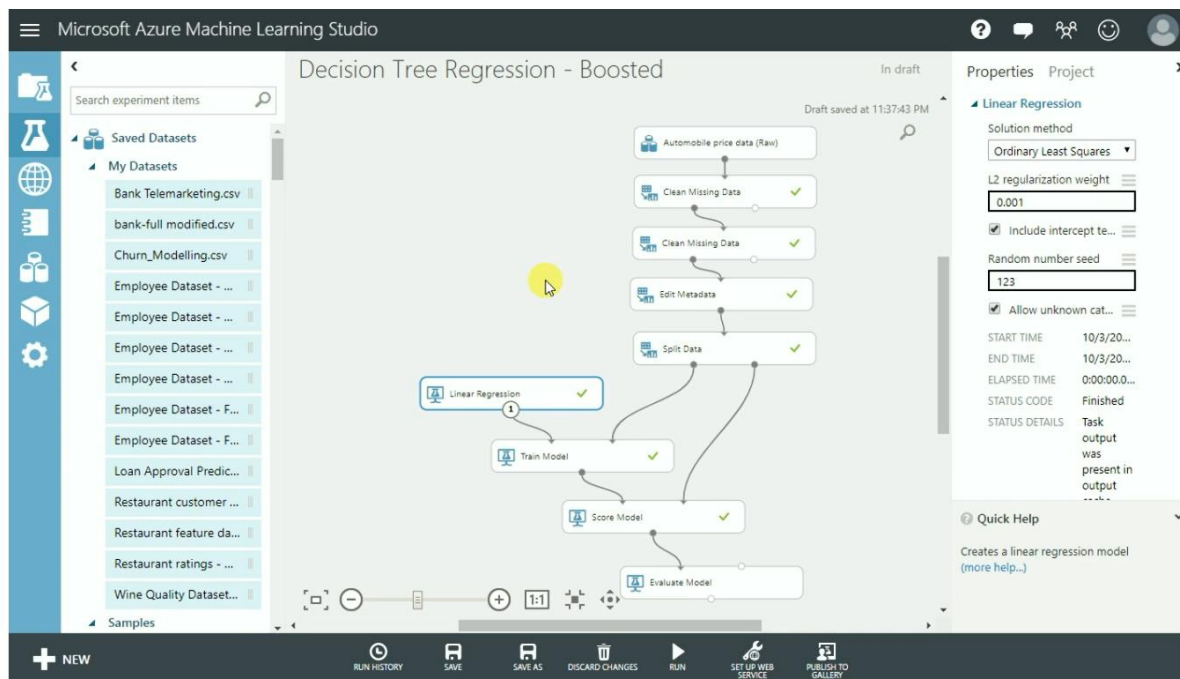
1. Implement and design a model for Automobile Data using Decision Tree.
2. Compare Linear and Decision Tree models using Hyper Tuning Parameters

## Requirements:

1. Access to an Azure Machine Learning Studio

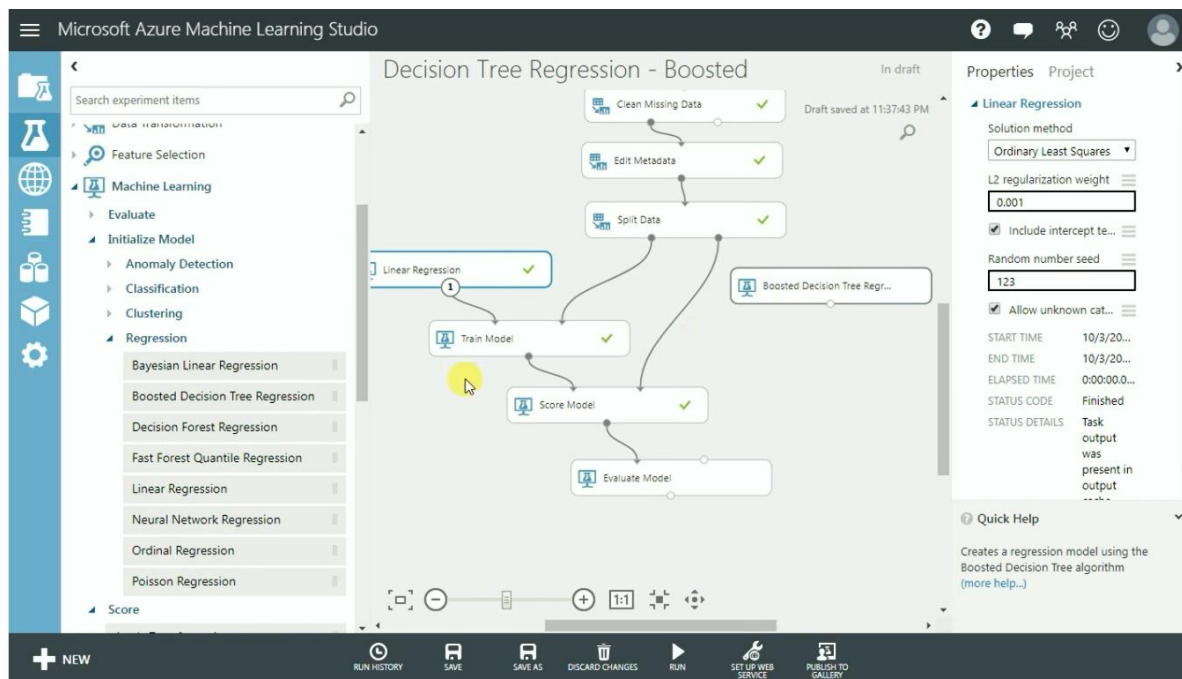
# Decision Tree Regression- Boosted

Pick the Previous experiment for Linear Regression

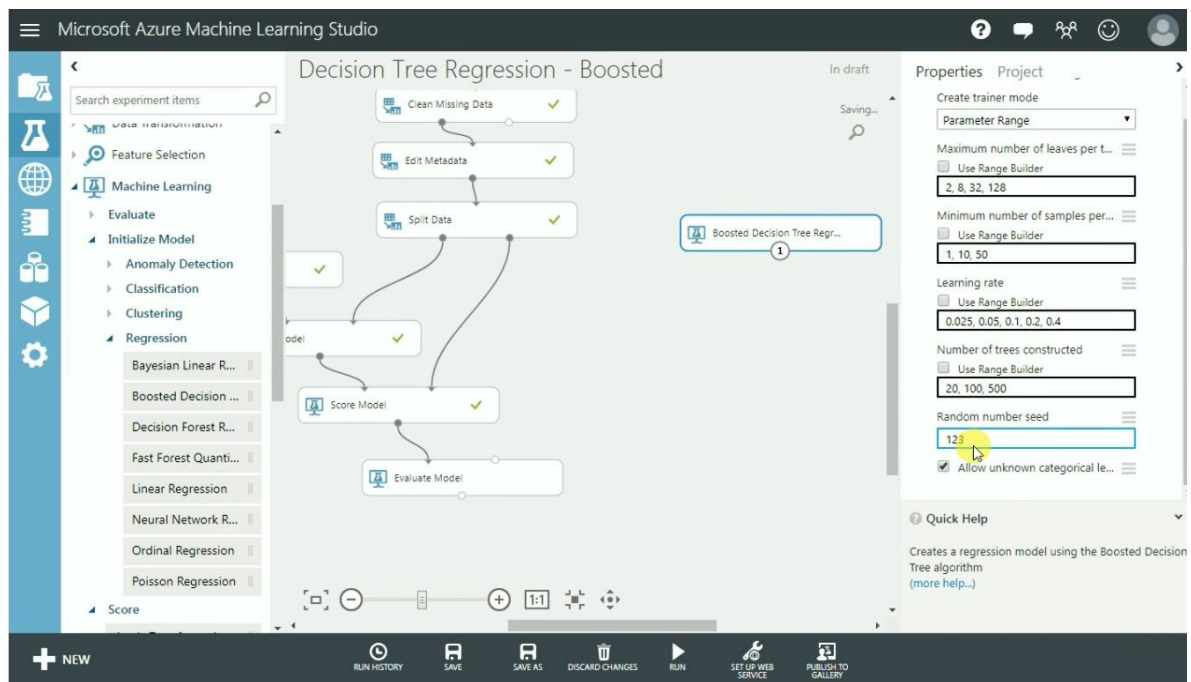


## Dataset for Boosted Decision Tree Regression

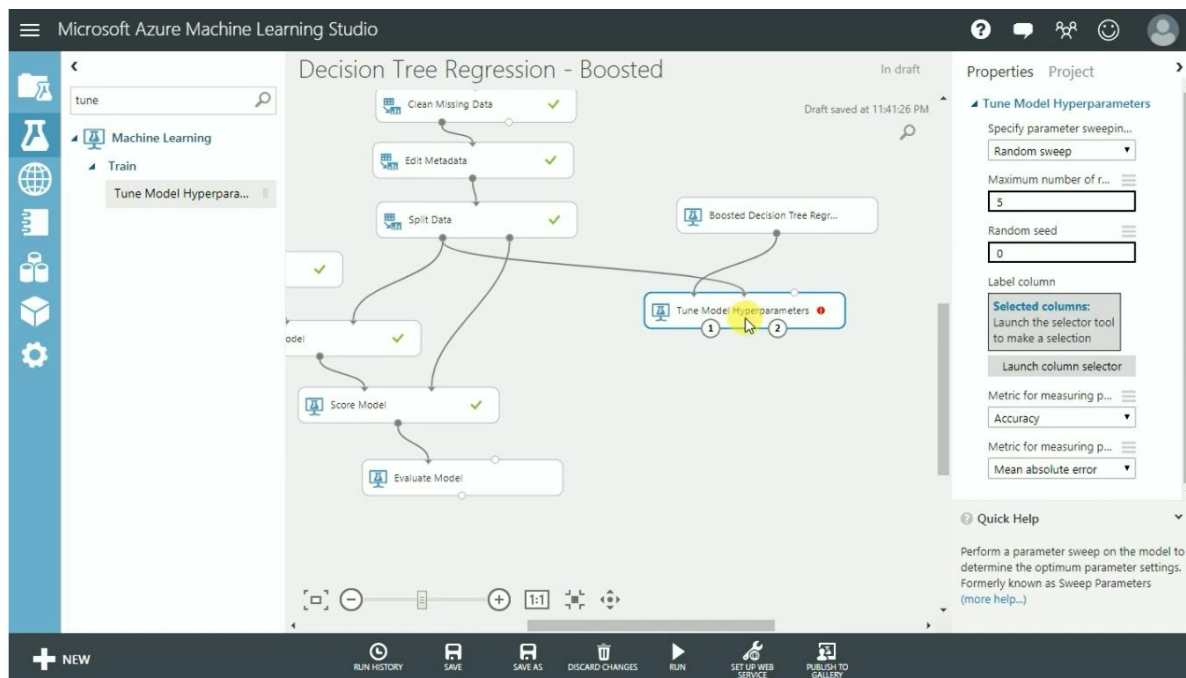
Drag and drop Boosted decision tree regression in canvas



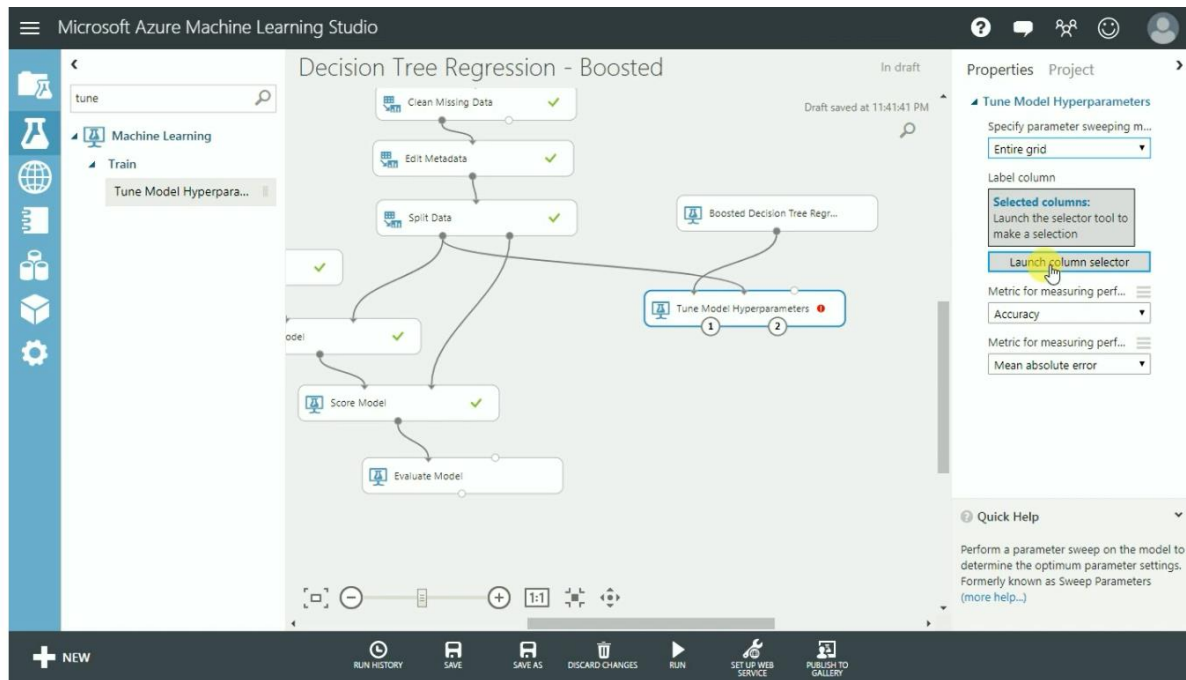
Change the parameters as required



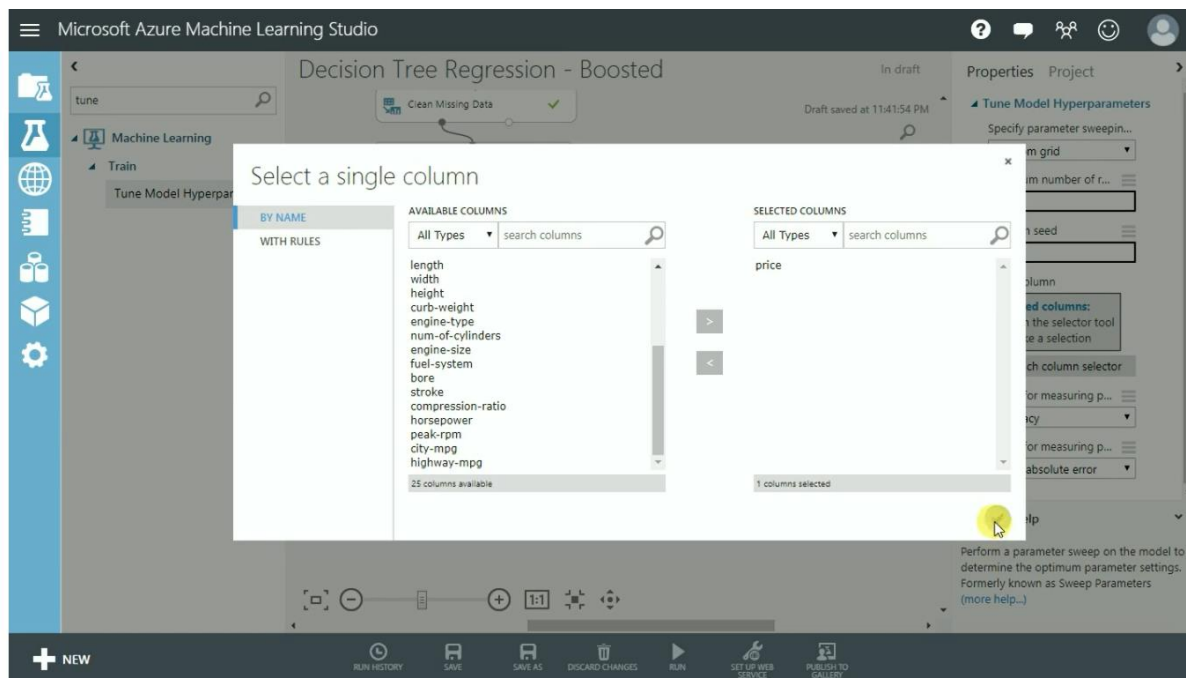
Connect the node to decision tree regression as shown



Select Random grid parameter and add label using launch column selector



Select price label and click ok



### Check the parameters before run and visualizing the module

Properties

Project

Tune Model Hyperparameters

Specify parameter sweeping method

Random grid

Maximum number of runs

5

Random seed

123

Label column

Selected columns:

Column names: price

Launch column selector

Metric for measuring performance

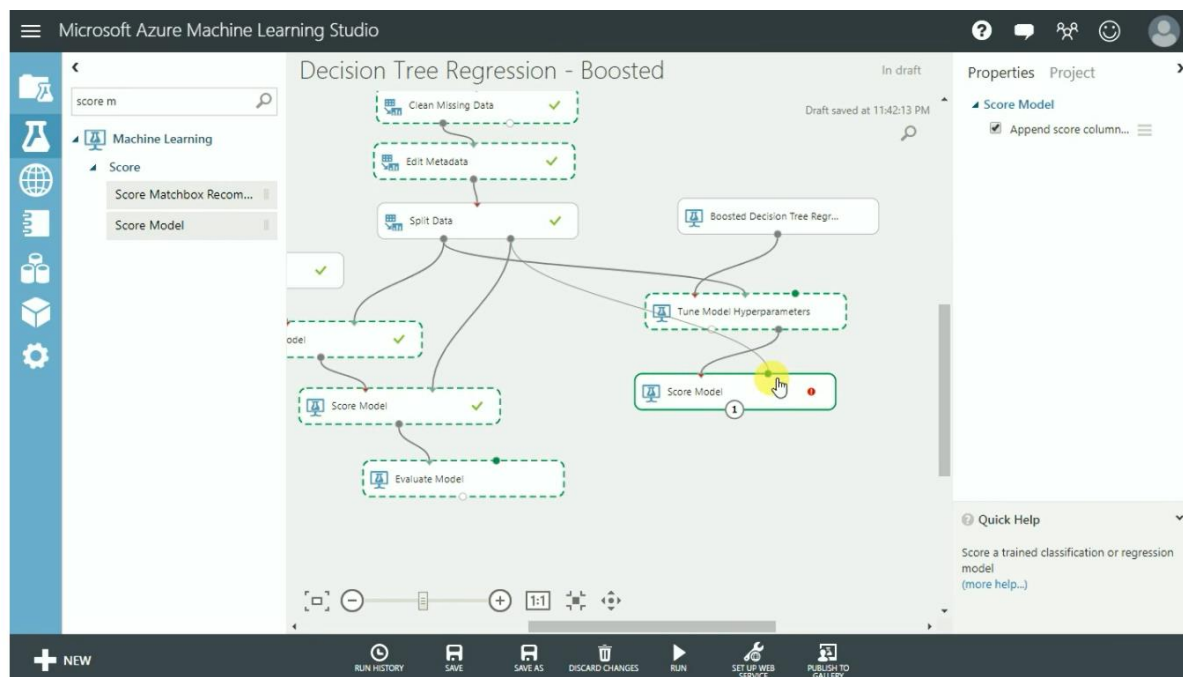
Accuracy

Metric for measuring performance

Coefficient of determination

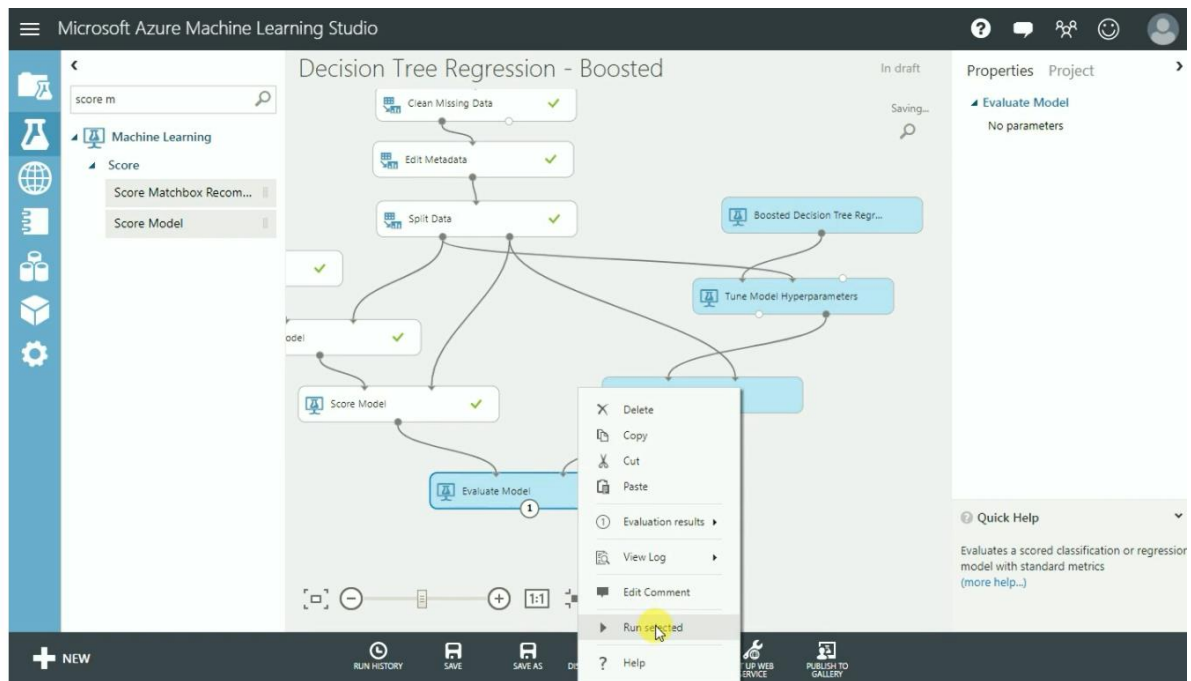
## Dataset for Score model

Place score model in canvas and connect with nodes shown

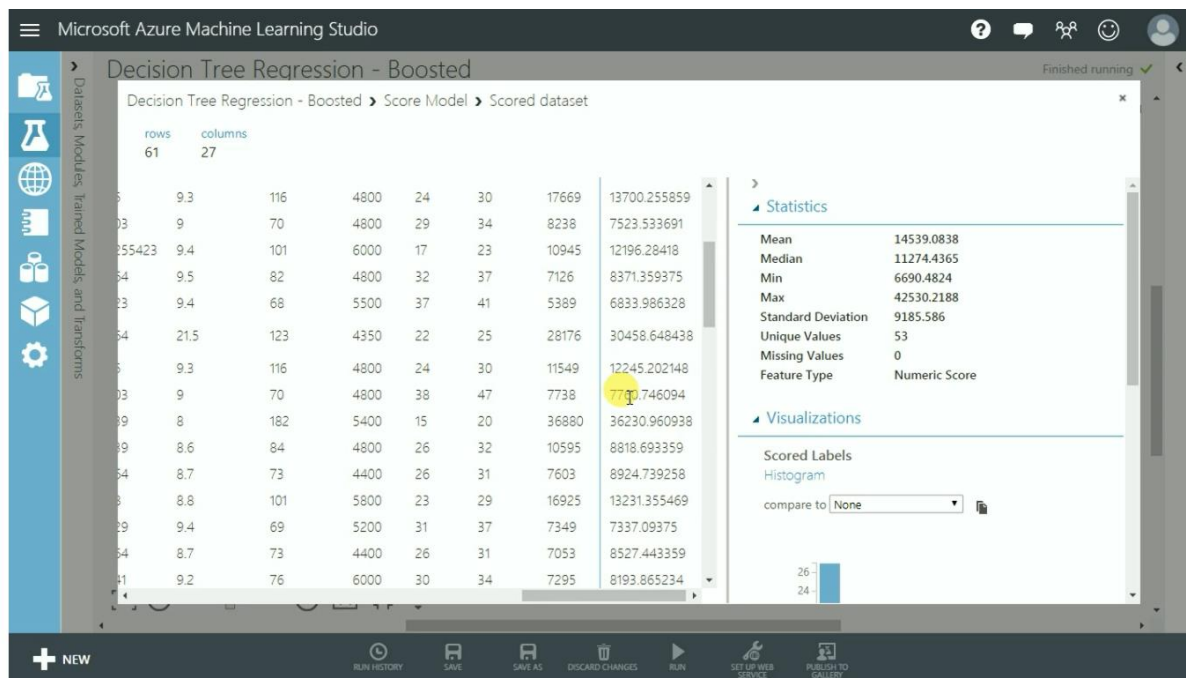




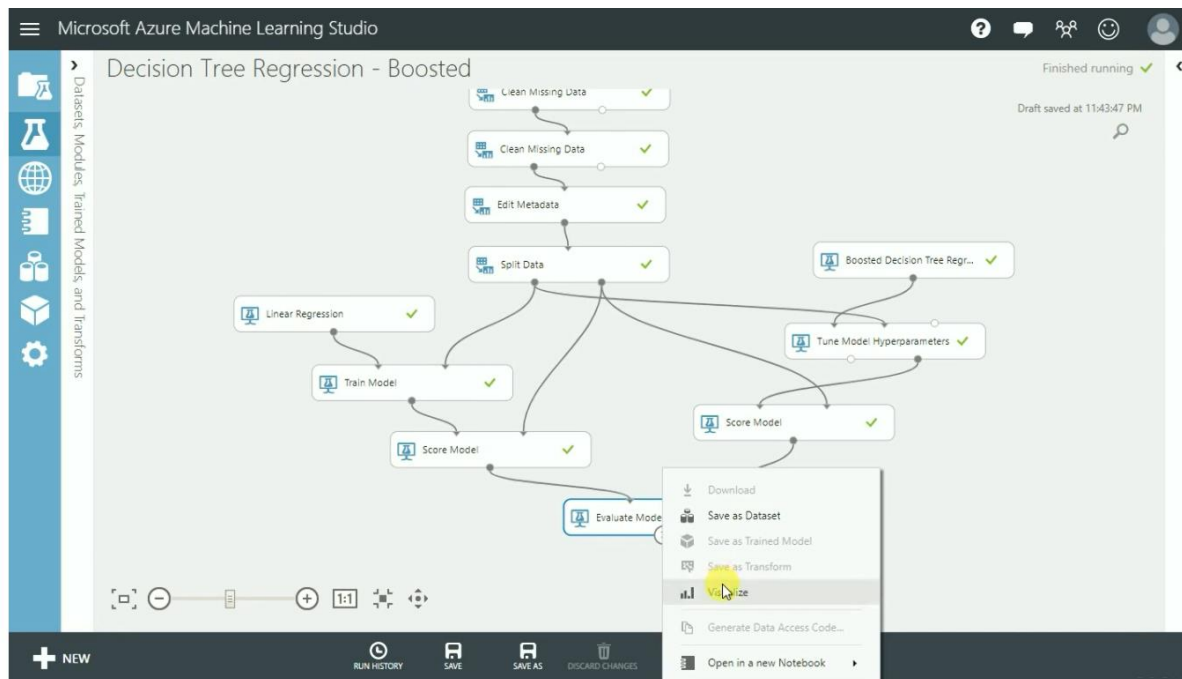
## Connect score model and evaluate model



## Results of score model



## Visualize evaluate model



## Comparison result of boosted decision and linear regression

