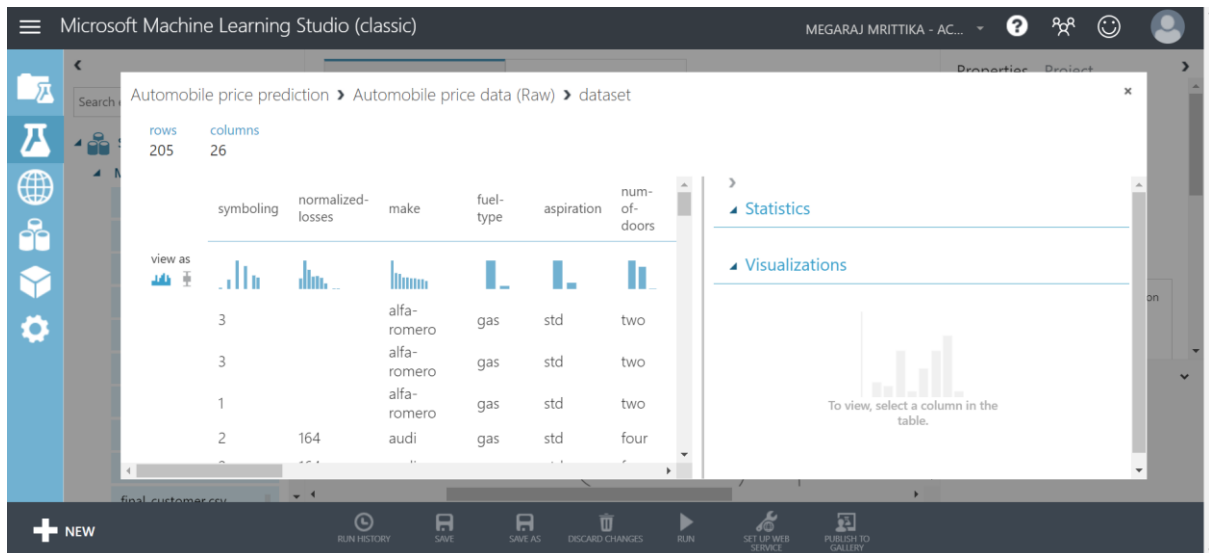
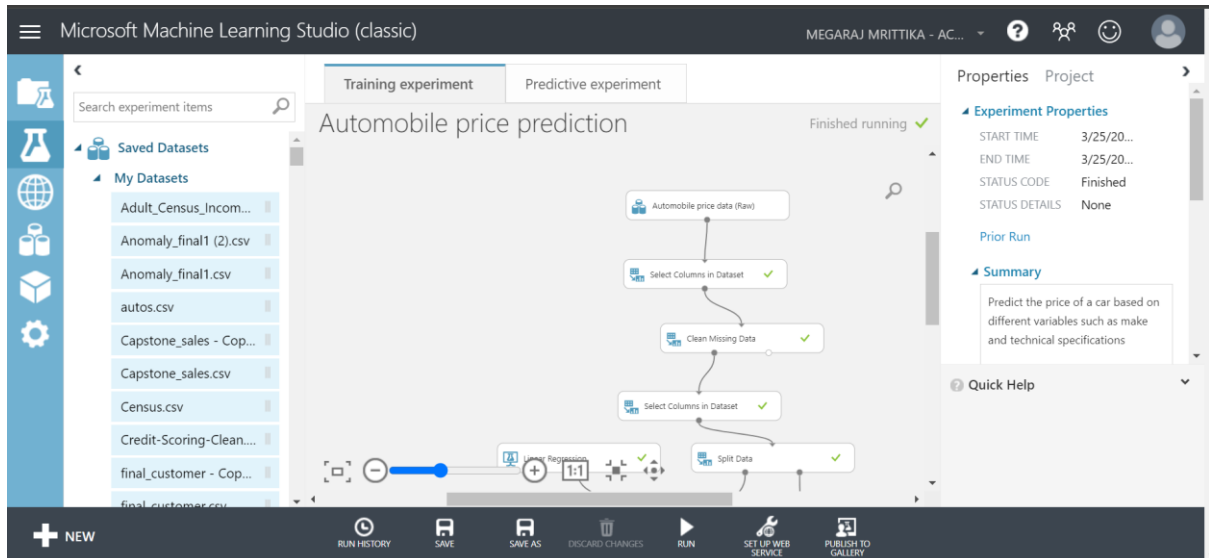
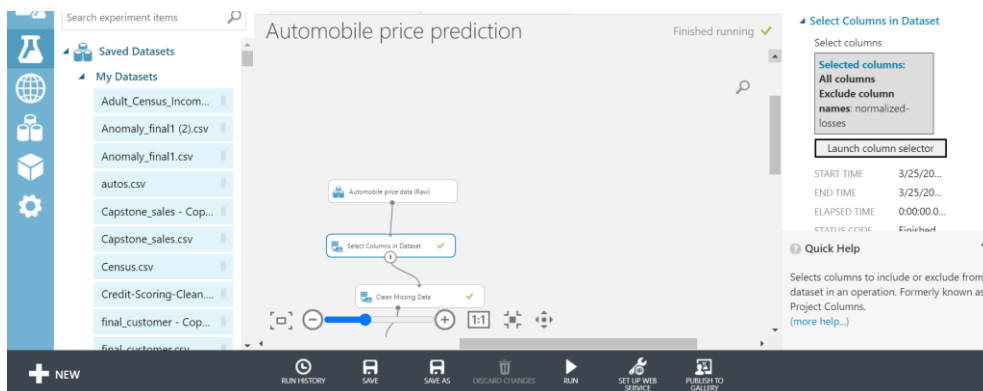


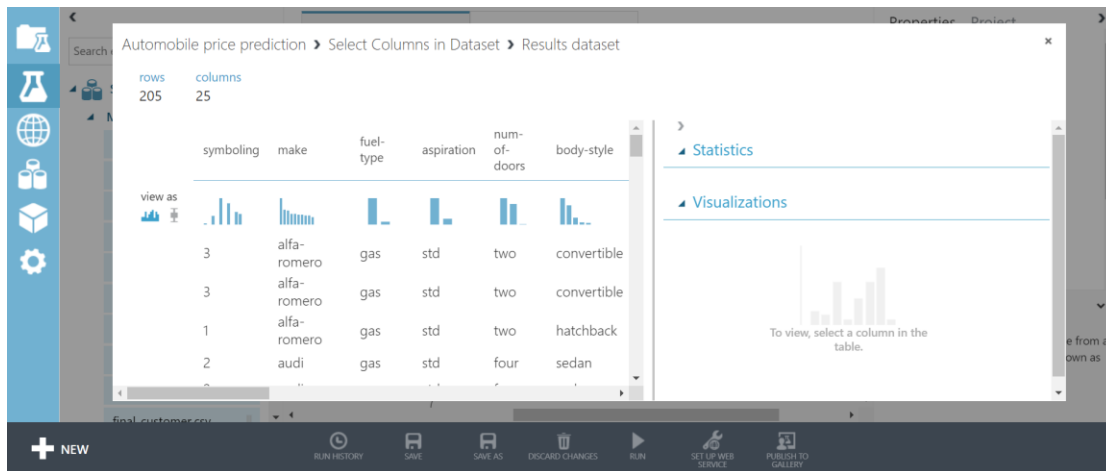
# Automobile Price Prediction Dataset

## Automobile Price Prediction Dataset Overview

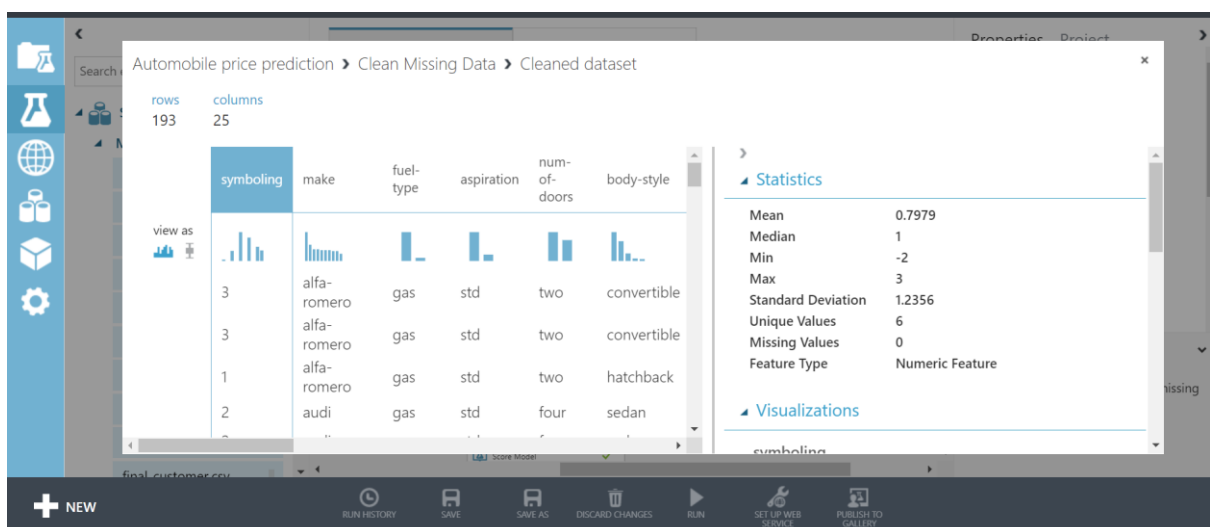
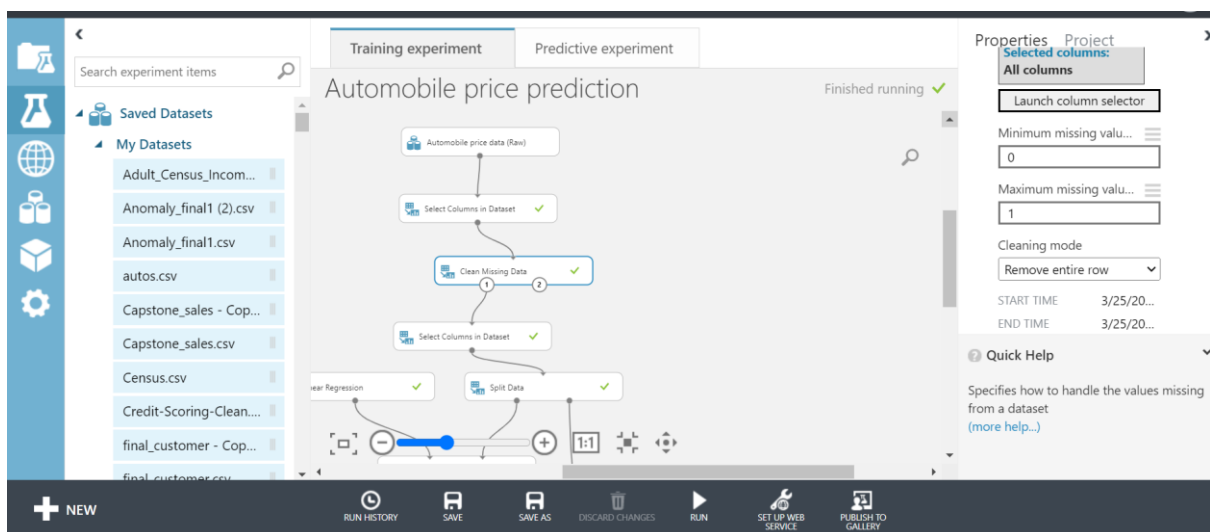


## Select Column in Dataset





## Replace Missing Values



## Split Data

Microsoft Machine Learning Studio (classic) interface showing an experiment titled "Automobile price prediction". The experiment is in the "Training experiment" tab and is marked as "Finished running". The workflow includes the following steps:

- Select Columns in Dataset
- Split Data
- Linear Regression
- Train Model
- Score Model
- Evaluate Model

The right sidebar displays the "Experiment Properties" and "Summary" sections.

**Experiment Properties**

- START TIME: 3/25/20...
- END TIME: 3/25/20...
- STATUS CODE: Finished
- STATUS DETAILS: None

**Summary**

Predict the price of a car based on different variables such as make and technical specifications

## TrainData

Microsoft Machine Learning Studio (classic) interface showing the results of the "Split Data" step for "Results dataset1". The table displays 145 rows and 8 columns. The right sidebar shows the "Statistics" and "Visualizations" sections.

rows	columns
145	8

make	body-style	wheel-base	engine-size	horsepower	peak-rpm
volvo	wagon	104.3	141	114	5400
audi	sedan	105.8	131	140	5500
mazda	sedan	93.1	91	68	5000
nissan	sedan	97.2	120	97	5200
honda	wagon	96.5	92	76	6000
toyota	hatchback	102.9	171	161	5200

## Test Data

Microsoft Machine Learning Studio (classic) interface showing the results of the "Split Data" step for "Results dataset2". The table displays 48 rows and 8 columns. The right sidebar shows the "Statistics" and "Visualizations" sections.

rows	columns
48	8

make	body-style	wheel-base	engine-size	horsepower	peak-rpm
subaru	sedan	97	108	111	4800
mitsubishi	hatchback	93.7	92	68	5500
dodge	hatchback	93.7	90	68	5500
honda	hatchback	86.6	92	76	6000
alfa-romero	convertible	88.6	130	111	5000
volvo	wagon	104.3	141	114	5400

## TrainModel

The screenshot displays the Microsoft Machine Learning Studio (classic) interface. The main workspace shows a workflow titled "Automobile price prediction" with the status "Finished running". The workflow includes the following steps: "Linear Regression", "Split Data", "Train Model", "Score Model", and "Evaluate Model". The "Train Model" step is highlighted with a blue border. On the left, the "Saved Datasets" pane lists various datasets, including "Adult\_Census\_Incom...", "Anomaly\_final1 (2).csv", "Anomaly\_final1.csv", "autos.csv", "Capstone\_sales - Cop...", "Capstone\_sales.csv", "Census.csv", "Credit-Scoring-Clean...", "final\_customer - Cop...", and "final\_customer.csv". On the right, the "Properties" pane shows the "Train Model" properties, including "Label column", "Selected columns: Column names: price", and "Launch column selector". The bottom toolbar contains icons for "NEW", "RUN HISTORY", "SAVE", "SAVE AS", "DISCARD CHANGES", "RUN", "SET UP WEB SERVICE", and "PUBLISH TO GALLERY".

The screenshot shows the "Batch Linear Regressor" settings dialog box. The dialog is titled "Automobile price prediction > Train Model > Trained model". It contains two sections: "Settings" and "Feature Weights".

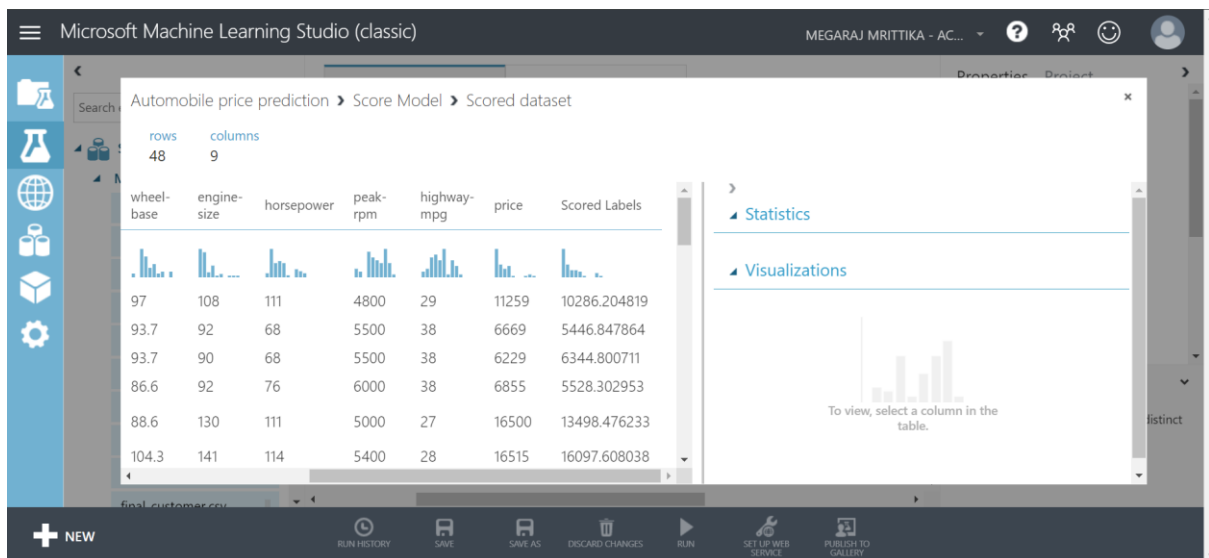
Setting	Value
Bias	True
Regularization	0.001
Allow Unknown Levels	True
Random Number Seed	

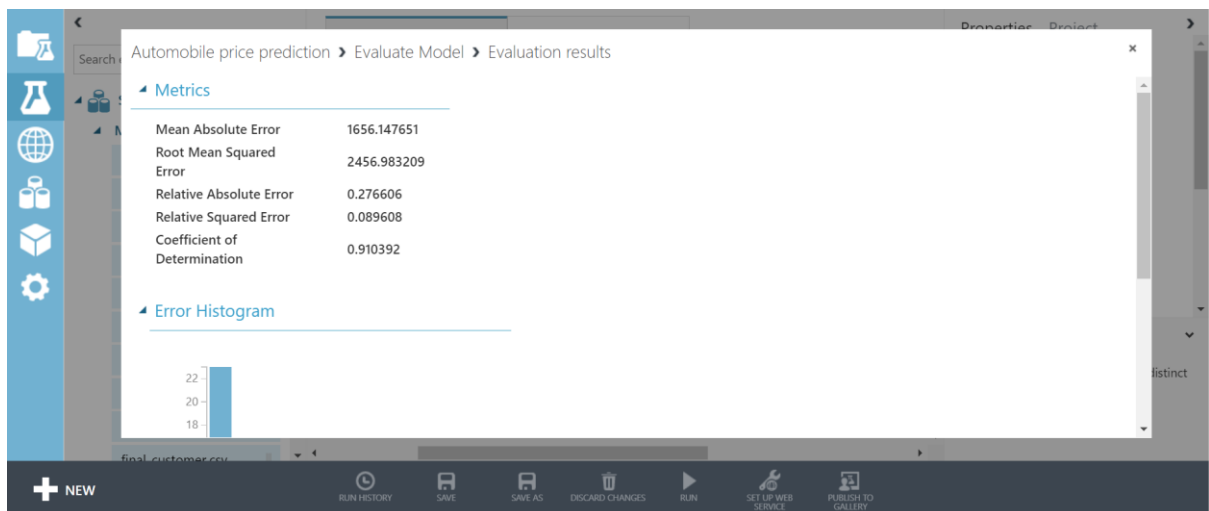
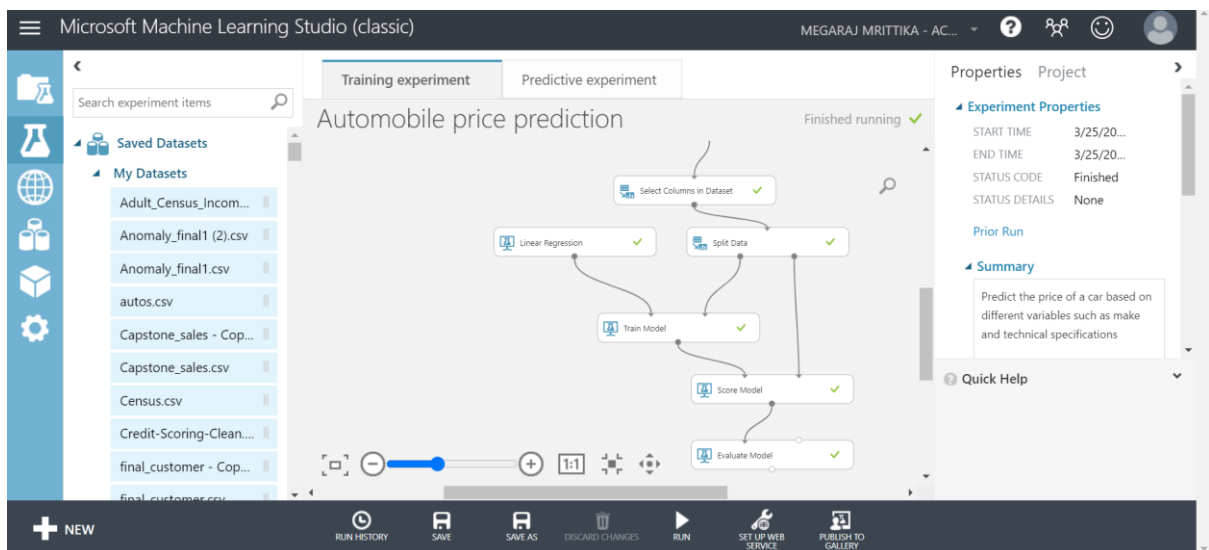
Feature	Weight
Bias	-22043.5

## Score Model

The screenshot displays the Microsoft Machine Learning Studio (classic) interface. The main workspace shows a workflow titled "Automobile price prediction" with the status "Finished running". The workflow includes the following steps: "Select Columns in Dataset", "Linear Regression", "Split Data", "Train Model", "Score Model", and "Evaluate Model". The "Score Model" step is highlighted with a blue border. On the left, the "Saved Datasets" pane lists various datasets, including "Adult\_Census\_Incom...", "Anomaly\_final1 (2).csv", "Anomaly\_final1.csv", "autos.csv", "Capstone\_sales - Cop...", "Capstone\_sales.csv", "Census.csv", "Credit-Scoring-Clean...", "final\_customer - Cop...", and "final\_customer.csv". On the right, the "Properties" pane shows the "Experiment Properties" section, including "START TIME", "END TIME", "STATUS CODE", and "STATUS DETAILS". The bottom toolbar contains icons for "NEW", "RUN HISTORY", "SAVE", "SAVE AS", "DISCARD CHANGES", "RUN", "SET UP WEB SERVICE", and "PUBLISH TO GALLERY".



## Evaluate Model



## Setup Webservice and Create Predictive Experiment

The screenshot displays the Microsoft Machine Learning Studio (classic) interface. The main workspace shows a predictive experiment titled "Automobile price prediction [Predictive E...". The experiment is in a "Finished running" state, with a draft saved at 4:49:04 PM. The experiment flow includes the following steps:

- Web service input
- Automobile price data (Raw)
- Automobile price prediction...
- Select Columns in Dataset
- Apply Transformation
- Automobile price prediction...
- Select Columns in Dataset
- Score Model
- Select Columns in Dataset
- Web service output

The left sidebar shows the "Saved Datasets" section with a list of datasets including "Adult\_Census\_Incom...", "Anomaly\_final1 (2).csv", "Anomaly\_final1.csv", "autos.csv", "Capstone\_sales - Cop...", "Capstone\_sales.csv", "Census.csv", "Credit-Scoring-Clean...", "final\_customer - Cop...", and "final\_customer.csv".

The right sidebar shows the "Properties" section for the "Web service output" component, with the "Name" property set to "output1".

The bottom toolbar contains the following icons: NEW, RUN HISTORY, SAVE, SAVE AS, DISCARD CHANGES, RUN, DEPLOY WEB SERVICE, and PUBLISH TO GALLERY.