



DIG DEEP WITH

# AZURE MACHINE LEARNING

Use data analysis to take your business to a whole new level.

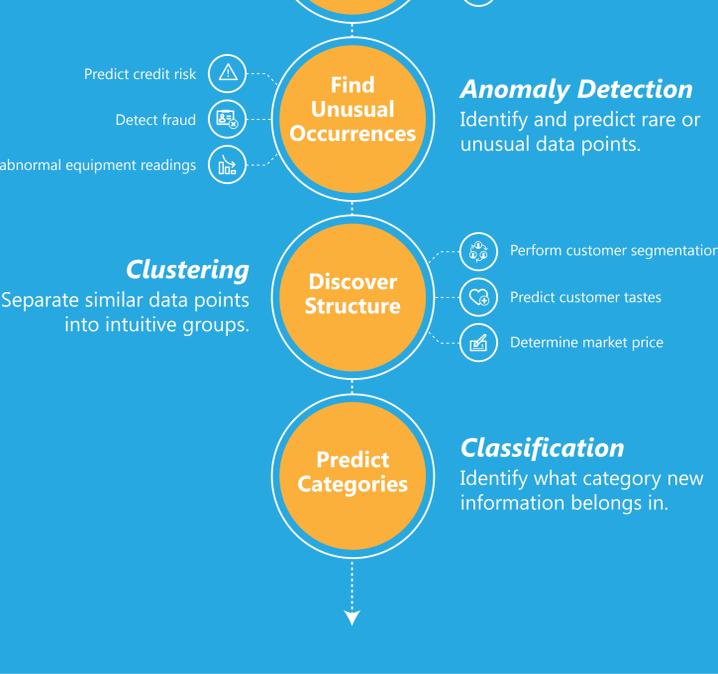
Microsoft Azure Machine Learning simplifies data analysis and empowers you to find the answers your business needs.

The question isn't whether you can find the answers. *The question is how.*



## So, what do you want to find out?

I WANT TO:



### Predict Between Two Categories

Two-Class Classification

Answers simple

two-choice questions, like yes-or-no, true-or-false.

Is this tweet positive?

Will this customer renew their service?

Which of two coupons draws more customers?



### Predict Between Several Categories

Multi-Class Classification

Answers complex

questions with multiple possible answers.

What is the mood of this tweet?

Which service will this customer choose?

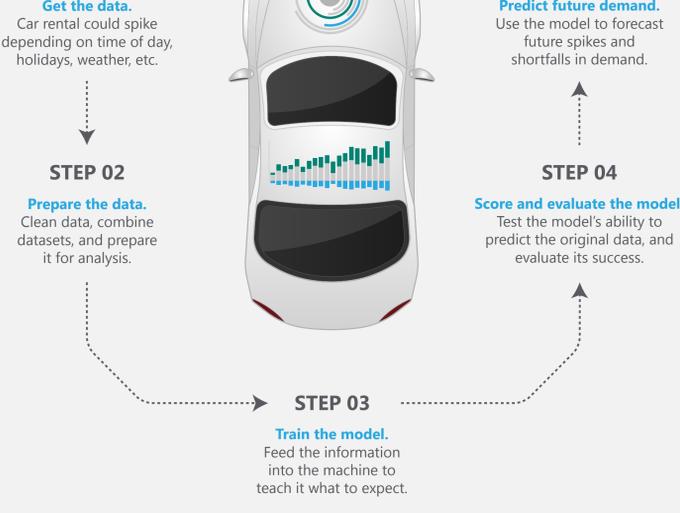
Which of several promotions draws more customers?

Azure Machine Learning works by teaching the software to find patterns in the current data so that it can seek out the patterns in future data.

## Let's say you rent cars.

### How can you accurately predict demand for your product?

FOR THAT YOU NEED REGRESSION ANALYSIS



Find out how to do this and more with #AzureML.

Visit us at <https://studio.azureml.net/>

## ALGORITHM MODULE OPTIONS

### Regression



**Ordinal Regression**

Data in rank ordered categories

[Example >](#)



**Poisson Regression**

Predicts event counts

[Example >](#)



**Fast forest quantile regression**

Predicts a distribution

[Example >](#)



**Linear Regression**

Fast training, linear model

[Example >](#)



**Bayesian Linear Regression**

Linear model, small data sets

[Example >](#)



**Neural Network Regression**

Accurate, long training times

[Example >](#)



**Decision Forest Regression**

Accurate, fast training times

[Example >](#)



**Boosted Decision Tree Regression**

Accurate, fast training times, large memory footprint

[Example >](#)

### Anomaly Detection

**One Class SVM**

Under 100 features, aggressive boundary

[Example >](#)



**PCA-Based Anomaly Detection**

Fast training times

[Example >](#)

### Clustering



**K-Means**

Unsupervised learning

[Example >](#)

### Two-Class Classification



**Two-class SVM**

Under 100 features, linear model

[Example >](#)



**Two-class averaged perceptron**

Fast training, linear model

[Example >](#)



**Two-class Bayes point machine**

Fast training, linear model

[Example >](#)



**Two-class decision forest**

Accurate, fast training

[Example >](#)



**Two-class logistic regression**

Fast training, linear model

[Example >](#)



**Two-class boosted decision tree**

Accurate, fast training, large memory footprint

[Example >](#)



**Two-class decision jungle**

Accurate, small memory footprint

[Example >](#)



**Two-class locally deep SVM**

Under 100 features

[Example >](#)



**Two-class neural network**

Accurate, long training times

[Example >](#)

### Multiclass Classification



**Multiclass logistic regression**

Fast training times, linear model

[Example >](#)



**Multiclass neural network**

Accuracy, long training times

[Example >](#)



**Multiclass decision forest**

Accuracy, fast training times

[Example >](#)



**Multiclass decision jungle**

Accuracy, small memory footprint

[Example >](#)



**One-v-all multiclass**

Depends on the two-class classifier

[Example >](#)