

# Predilytics

## Predictive Modeling

Predictive modeling is a process that uses **data mining** and **probability** to forecast outcomes. Each model is made up of a number of predictors, which are variables that are likely to influence future results. Once data has been collected for relevant predictors, a statistical model is formulated. The model may be a simple linear equation or it may be a complex neural network, mapped out by sophisticated software. As more data becomes available, the **statistical analysis** model is validated or revised for a more accurate model.

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### Statistical Analysis

The goal of statistical analysis is to identify trends and patterns in every data set. The process of statistical analysis is complex. The value of the data, explains the nature of the data, creates a model from the data, and, given the quality of the model, and then use predictor analysis to forecast.

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### Probability

Probability is a branch of mathematics that calculates the likelihood of an event occurring.

A common example is how probability is used to predict the chance of a team winning a game. If a team has 70% of the games and 30% of the losses.

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### Data Mining

Data mining is the process of extracting information from data sets. It is used to find patterns and relationships in data.

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### Models




### Books



### Journal Articles

Journal articles provide detailed research findings and analysis in the field of predictive modeling.

### Videos



### Logistic Regression

Logistic regression is a statistical model used to predict the probability of a binary outcome based on one or more predictor variables.

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### Predictive Modeling is used in several jobs. It is used in healthcare to relate past information with drug sales. It is also used in archeology as a decision-making tool in cultural resource management.

# Predictalytics

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**Statistical Analysis**

The goal of statistical analysis is to identify trends and summarize every data set. The five steps of statistical analysis are: describe the feature of the data, explore the relation of the data, create a model of how the data relates, prove the validity of the model, and then use predictive analytics to run scenarios.

**Probability**

Probability is a branch of mathematics that calculates the likelihood of a given event occurring.

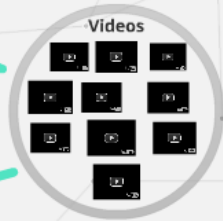
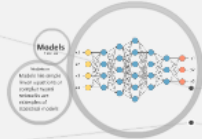
A common example to show probability is picking a red marble from a bag with 5 red, 8 green, and 2 yellow marbles.

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**Data Mining**

Data mining is the process of sifting through large data sets. The data is sorted to find patterns and connections to find a solution to a problem.

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**Journal Articles**

Author: S. Chakraborty, A. Bhowmik, C. Chakraborty  
Predictive Modeling in Public Health: A Review  
Public Health Research, 2018, 1(1), 1-10  
DOI: 10.1080/24747960.2018.1488888

Author: L. A. Chiu  
Predictive Modeling in Public Health: A Review  
Public Health Research, 2018, 1(1), 1-10  
DOI: 10.1080/24747960.2018.1488888

**Logistic Regression**

Logistic Regression is a statistical method used to predict the probability of a binary outcome. It is used to model the relationship between a set of independent variables and a dependent variable.

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# Data Mining

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## Statistical Analysis

The goal of statistical analysis is to identify trends and scrutinize every data set. The five steps of statistical analysis are: describe the nature of the data, explore the relation of the data, create a model of how the data relates, prove the validity of the model, and then use predictive analytics to run scenarios.

# Logistic Regression

Logistic Regression is a statistical analysis method that is used to predict a data value using prior observations. Logistic regression model depicts the dependent variable by analyzing the relationship between previous independent variables.

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# Models

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Models like simple linear equations or complex neural networks are examples of statistical models