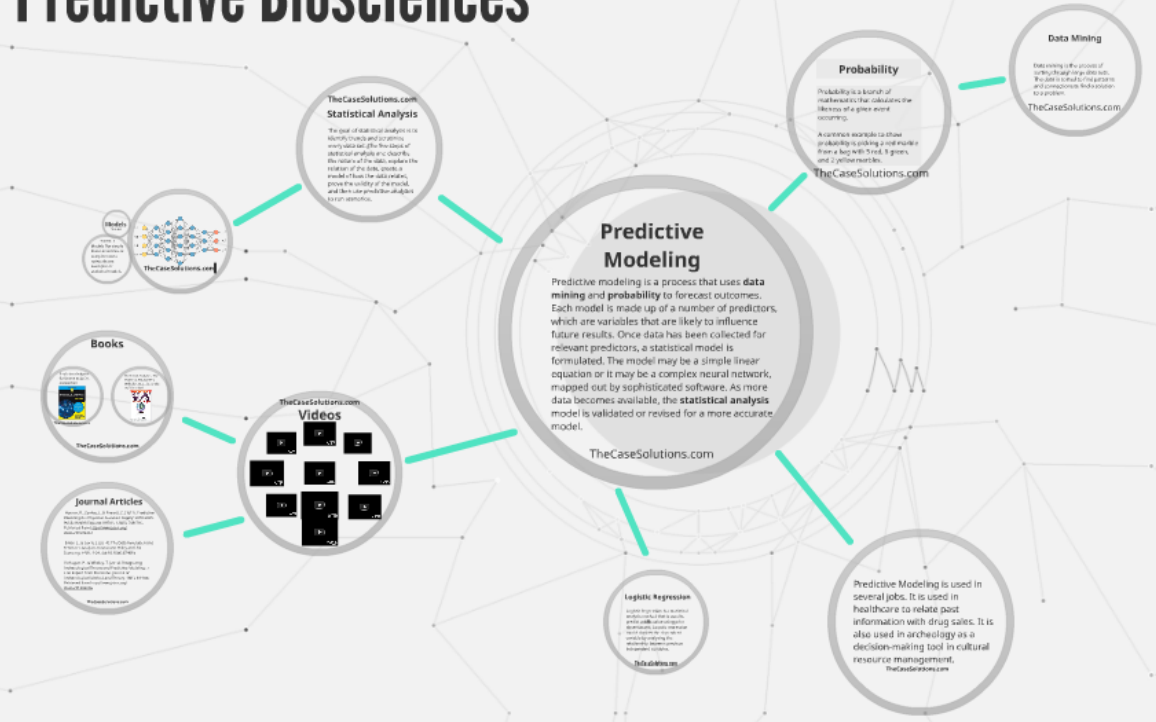
Predictive Biosciences



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Predictive Biosciences

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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Probability

Probability is a branch of mathematics that calculates the likeness 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 sorting through large data sets. The data is sorted to find patterns and connections to find a solution to a problem.

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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.

Models

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Books

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Videos

Journal Articles

Logistic Regression

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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.

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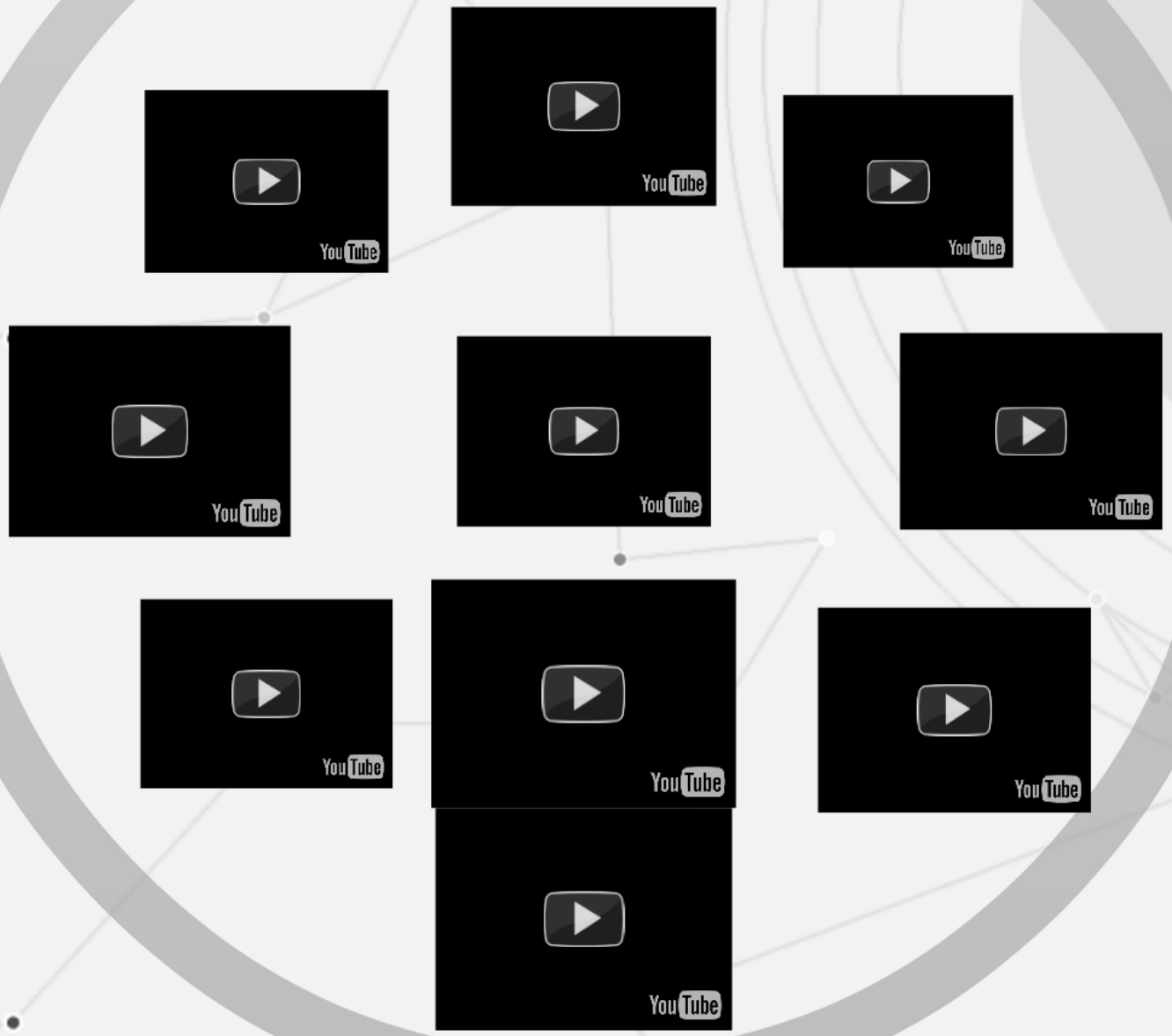
Videos



Journal Articles

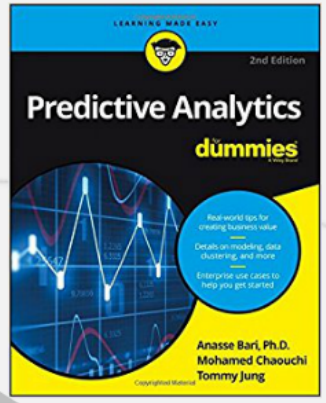
Hooker, R., Cawley, J., & Everett, C. (2011). Predictive Modeling the Physician Assistant Supply: 2010-2025. Public Health Reports (1974-), 126(5), 708-716. Retrieved from http://www.jstor.org/stable/41639422

Einav, L., & Levin, J. (2014). The Data Revolution and Economic Analysis. Innovation Policy and the Economy, 14(1), 1-24. doi:10.1086/674019

Verhagen, P., & Whitley, T. (2012). Integrating Archaeological Theory and Predictive Modeling: A Live Report from the Scene. Journal of Archaeological Method and Theory, 19(1), 49-100. Retrieved from http://www.jstor.org/stable/41408809

Books

Predictive Analytics for Dummies by Dr. Anasse Bari



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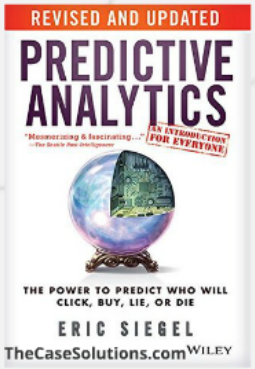
Predictive Analytics: The Power to Predict Who Will Click, Buy, Lie, or Die by Eric Seigel



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REVISED AND UPDATED

PREDICTIVE ANALYTICS

"Mesmerizing & fascinating..."
—The Seattle Post-Intelligencer

AN INTRODUCTION FOR EVERYONE

THE POWER TO PREDICT WHO WILL CLICK, BUY, LIE, OR DIE

ERIC SIEGEL

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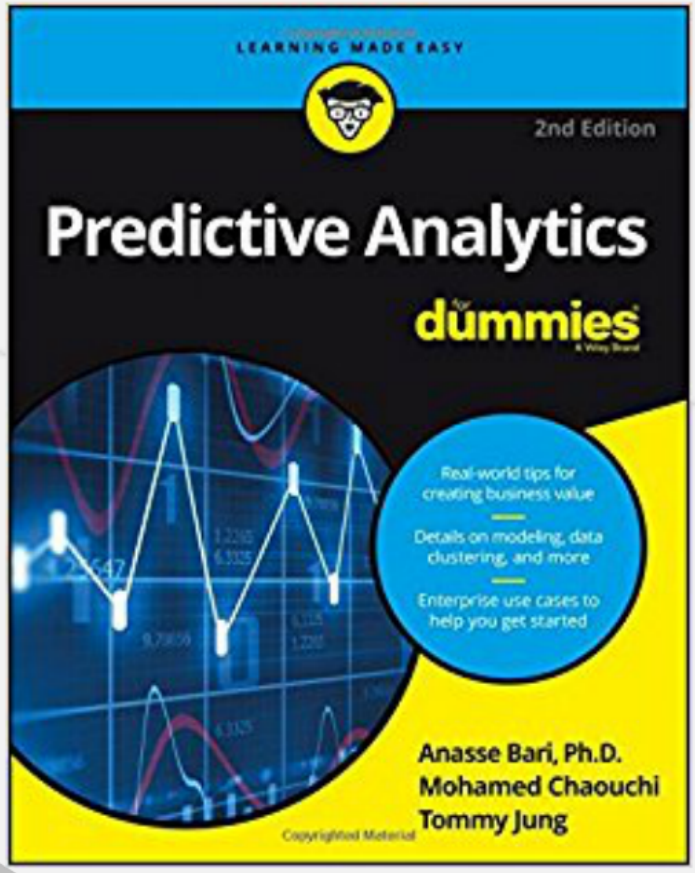
WILEY

Predictive Analytics for Dummies by Dr. Anasse Bari



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