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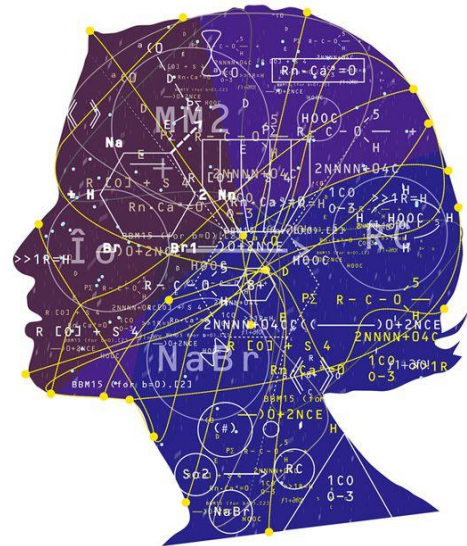
## LeaderShift: Data Analytics

### The Genesis of the Algorithmic Executive & Consumer

By Joe Hunt

The tectonic shifting dynamics of domestic and international markets accelerated by constant advances in digitization and other factors requires leaders to have high levels of mastery on both Tech Savvy (Data Analytics) and Analysis Skills.

Broken down to its lowest common denominator, the single greatest instrument of change in business is the advancement of algorithms and its use in sophisticated software. Executives that master this LeaderShift competency can be game changers and create competitive advantage for their organizations.



As Ram Charan points out in The Attacker’s Advantage, never before has so much brain power been computerized and made available to anybody who develops the skills to use it. Raw mental power to deconstruct and predict patterns and changes in everything from consumer behavior and human health to the maintenance requirements and operating lifetimes of equipment. In combination with other technological factors, algorithms are dramatically changing both the structure of the global economy and the lifestyles of individual people. (The others include digitization, the Internet, broadband mobility, sensors, and faster and cheaper-by-the-day data-crunching abilities.)



the producer and the individual consumer, delivering information or decisions in real time consistently and reliably, according to predetermined decision rules embedded in the algorithm. For those decisions that do require human judgment, the machines kick the issue to a person. The data accumulated from these interactions can be used for all manner of purposes. For example, the end-to-end consumer experience has a large number of touch points, each of which—whether human, digital, or Web related—can be predictable or unpredictable. A company can map out all these touch points in extreme detail and gather information at each one. A math engine can then generate insights to guide managerial decisions about such things as innovation, new product development, and resource allocation. Such analyses of user touch points can be done continuously in real time or through mathematical sampling over time, not just for one event.



The data can also be used as a diagnostic tool—for example, they can reveal signals and seeds of potential external change and help identify uncertainties and new opportunities. They can point to anomalies from past trends and whether they are becoming a pattern and help spot new needs or trends that are emerging and could make your business obsolete.

The math house are shaping up as a new stage in the evolution of relations between businesses and consumers. The first stage, before the Industrial Revolution, was one-to-one transactions between artisans and their customers. Then came the era of mass production and mass markets, followed by the segmenting of markets and semi-customization of the buying experience. With companies such as Amazon able to collect and manage information on the entire experience of a customer, the math house now can focus on each customer as an individual. In a manner of speaking, we are evolving back to the artisan model, in which a market segment comprises one individual.

The ability to connect the corporation to the customer experience and touch points in real time has deep implications for the organization of the future. It speeds decision making and allows leaders to flatten the organization, in some cases cutting layers by half. A large proportion of traditional middle management jobs—managers managing managers—will disappear, while the content of those jobs that remain will radically alter. The company’s overhead will be reduced by an order of magnitude; while creative experts are high priced, there will be an enormous reduction in the cost of management as well as that of low-skilled labor. In addition, performance metrics will be totally

redesigned and transparent, enhancing collaboration in a corporation or its ecosystems across silos, geographies, time zones, and cultures.

To take advantage of uncertainty, you must make the use of algorithms part of your vocabulary tomorrow as much as, say, profit margins and the supply chain are today. And your executive team must understand their role in growing the business. This is a factor so powerful that I feel confident in stating that any organization that is not a math house now or is unable to become one soon is already a legacy company. The transformation has nothing to do with how young or old the company is, but rather with how effectively it deals on a timely basis with the new paradigm. It will require more than hiring new kinds of expertise and grafting new skills onto the existing organization. Many companies will need to substantially change the way they are organized, managed, and led.

Leaders that can't master turning uncertainty into breakthrough opportunities will be left in dust.

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