

The background features a complex network of thin, golden-brown lines that resemble circuit traces or data pathways. These lines are interconnected with small circular nodes, some of which are solid gold and others are hollow. The overall pattern is dense and organic, spreading across the entire frame. A semi-transparent white rectangular area is positioned in the center, serving as a backdrop for the text.

BIG DATA

USE CASES

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BIG DATA USE CASES:



1. OPTIMIZE FUNNEL
CONVERSION



2. BEHAVIORAL
ANALYTICS



3. CUSTOMER
SEGMENTATION



4. PREDICTIVE
SUPPORT



5. MARKET BASKET
ANALYSIS AND PRICING
OPTIMIZATION



6. PREDICT SECURITY
THREATS



7. FRAUD DETECTION








8. INDUSTRY SPECIFIC



1. OPTIMIZE FUNNEL CONVERSION

Big data analytics allows companies to track leads through the entire sales conversion process, from a click on an adword ad to the final transaction, in order to uncover insights on how the conversion process can be improved.

	 COMPANY T-Mobile	 INDUSTRY Communication
	 EMPLOYEES 38,000	 TYPE Optimize Funnel Conversion

PURPOSE:

T-mobile uses multiple indicators, such as billing and sentiment analysis, in order to identify customers that can be upgraded to higher quality products, as well as to identify those with a high lifetime customer-value, so its team can focus on retaining those customers.



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COMPANY

Celcom Axiata Berhad



INDUSTRY

Communication



EMPLOYEES

Enterprise



TYPE

Optimize Funnel Conversion

PURPOSE:

Celcom Axiata Berhad adopted a big data solution in order to improve customer retention and boost its market share by improving the marketing campaign process. The company used real-time data to create a personalized campaign for each customer based on which products or offers the customer would most want or need.



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La forma e la sostanza.



COMPANY

Credem



INDUSTRY

Finance



EMPLOYEES

5,600



TYPE

Optimize Funnel
Conversion

PURPOSE:

Credem uses data analytics to predict which financial products or services a customer would appreciate, so it can better target consumers during the sales process. With these insights, the bank increased average revenue by 22 percent and reduced costs by 9 percent.



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2. BEHAVIORAL ANALYTICS

With access to data on consumer behavior, companies can learn what prompts a customer to stick around longer, as well as learn more about their customer's characteristics and purchasing habits in order to improve marketing efforts and boost profits.



COMPANY

Mastercard



INDUSTRY

Finance



EMPLOYEES

67,000



TYPE

Behavioral
Analytics

PURPOSE:

With 1.8 billion customers, MasterCard is in the unique position of being able to analyze the behavior of customers in not only their own stores, but also thousands of other retailers. The company teamed up with Mu Sigma to collect and analyze data on shoppers' behavior, and provide the insights it finds to other retailers in benchmarking reports.



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COMPANY

Time Warner Cable



INDUSTRY

Entertainment



EMPLOYEES

34,000



TYPE

Behavioral Analytics
& Customer
Segmentation

PURPOSE:

With services like Hulu and Netflix competing for viewers' attention, Time Warner collects data on how frequently customers tune in, the effect of bandwidth on consumer behavior, customer engagement and peak usage times in order to improve their service and increase profits. The company also segments its customers for advertisers by correlating viewing habits with public data—such as voter registration information—in order to launch highly targeted campaigns to specific locations or demographics.



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COMPANY

Nestlé



INDUSTRY

Food & Beverage



EMPLOYEES

>330,000



TYPE

Behavioral
Analytics

PURPOSE:

Customer complaints and PR crises have become more difficult to handle thanks to social media. To better keep track of customer sentiment and what is being said about the company online, Nestle created a 24/7 monitoring centre to listen to all of the conversations about the company and its products on social media. The company will actively engage with those that post about them online in order to mitigate damage and build customer loyalty.



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COMPANY

McDonald's



INDUSTRY

Food & Beverage



EMPLOYEES

>750,000



TYPE

Behavioral
Analytics

PURPOSE:

McDonalds tracks vast amounts of data in order to improve operations and boost the customer experience. The company looks at factors such as the design of the drive-thru, information provided on the menu, wait times, the size of orders and ordering patterns in order to optimize each restaurant to its particular market.



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COMPANY

Starbucks Coffee



INDUSTRY

Food & Beverage



EMPLOYEES

160,000



TYPE

Behavioral
Analytics

PURPOSE:

Starbucks collects data on its customers' purchasing habits in order to send personalized ads and coupon offers to the consumers' mobile phones. The company also identifies trends indicating whether customers are losing interest in their product and directs offers specifically to those customers in order to regenerate interest.



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3. CUSTOMER SEGMENTATION

By accessing data about the consumer from multiple sources, such as social media data and transaction history, companies can better segment and target their customers and start to make personalized offers to those customers.



COMPANY

Heineken



INDUSTRY

Food & Beverage



EMPLOYEES

64,252



TYPE

Customer
Segmentation

PURPOSE:

Thanks to its partnerships with Google and Facebook, Heineken has access to vast amounts of data about its customers that it uses to create real-time, personalized marketing messages. One project provides real-time content to fans who happen to be watching a sponsored event.



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COMPANY

Spotify



INDUSTRY

Entertainment



EMPLOYEES

5,000



TYPE

Customer
Segmentation &
Behavioral Analytics

PURPOSE:

Spotify uses data from user profiles and users' playlists, and historical data on music played to provide recommendations for each user. By combining data from millions of users, Spotify is able to make recommendations even if a particular user doesn't have an extensive history with the site.



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NORDSTROM



COMPANY

Nordstrom



INDUSTRY

Retail



EMPLOYEES

48,000



TYPE

Customer
Segmentation

PURPOSE:

Nordstrom collects data from its website, social media, transactions and customer rewards program in order to create customized marketing messages and shopping experiences for each customer, based on the products and channels that customer prefers.



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COMPANY
Intercontinental
Hotel Group



INDUSTRY
Hotel/Travel



EMPLOYEES
7,981



TYPE
Customer
Segmentation

PURPOSE:

IHG collects extensive data about their customers in order to provide a personalized web experience for each customer, so as to boost conversion rates. It also uses data analytics to evaluate and adjust its marketing mix.



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COMPANY

Walmart



INDUSTRY

Retail



EMPLOYEES

2,000,000



TYPE

Customer
Segmentation

PURPOSE:

Walmart combines public data, social data and internal data to monitor what customers and friends of customers are saying about a particular product online. The retailer uses this data to send targeted messages about the product, and to share discount offers. Walmart also uses data analysis to identify the context of an online message, such as if a reference to “salt” is about the movie or the condiment.



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4. PREDICTIVE SUPPORT

Through sensors and other machine-generated data, companies can identify when a malfunction is likely to occur. The company can then preemptively order parts and make repairs in order to avoid downtime and lost profits.



COMPANY

Southwest Airlines



INDUSTRY

Travel



EMPLOYEES

>45,000



TYPE

Predictive Support

PURPOSE:

Southwest analyses sensor data on their planes in order to identify patterns that indicate a potential malfunction or safety issue. This allows the airline to address potential problems and make necessary repairs without interrupting flights or putting passengers in danger.



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COMPANY

Engine Yard



INDUSTRY

Cloud Storage



EMPLOYEES

130



TYPE

Predictive Support

PURPOSE:

Engine yard provides big data analytics to its users, so they can monitor the performance of applications in real time, pinpoint problems with the infrastructure and optimize the platform to correct performance issues.



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Morgan Stanley



COMPANY

Morgan Stanley



INDUSTRY

Financial



EMPLOYEES

60,000



TYPE

Predictive Support

PURPOSE:

Morgan Stanley uses real-time wire data analytics to detect problems in its applications and prioritize which issues should be addressed first. The company also uses big data to determine the impact of a particular market event, as well as its original cause.



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COMPANY

Union Pacific
Railroad



INDUSTRY

Transportation



EMPLOYEES

44,000



TYPE

Predictive Support

PURPOSE:

With predictive analytics and tools such as visual sensors and thermometers, Union Pacific can detect imminent problems with railway tracks in order to predict potential derailments days before they would likely occur. So far the sensors have reduced derailments by 75 percent.



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COMPANY

Purdue University



INDUSTRY

Education



EMPLOYEES

40,000 students
6,600 staff



TYPE

Predictive Support

PURPOSE:

Purdue University uses big data analytics for a unique kind of predictive support. Its system predicts academic and behavioral issues so that students and teachers can be notified when changes need to be made in order for the student to be successful.



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5. MARKET BASKET ANALYSIS & PRICING OPTIMIZATION

By quickly pulling data together from multiple sources, retailers can better optimize their product selection and pricing, as well as decide where to target ads.



COMPANY

Procter & Gamble



INDUSTRY

Household Retail



EMPLOYEES

129,000



TYPE

Market Basket
Analysis

PURPOSE:

P&G uses simulation models and predictive analytics in order to create the best design for its products. It creates and sorts through thousands of iterations in order to develop the best design for a disposable diaper, and uses predictive analytics to determine how moisture affects the fragrance molecules in dish soap, so the right fragrance comes out at the right time in the dishwashing process.



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COMPANY

Etihad



INDUSTRY

Travel



EMPLOYEES

more than 9,000



TYPE

Market Basket
Analysis & Pricing
Optimization

PURPOSE:

As Etihad Airways seeks to expand internationally, it uses big data to determine which destinations and connections should be added in order to maximize revenue.



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	 <div>COMPANY Coca-Cola Co.</div>	 <div>INDUSTRY Food</div>
	 <div>EMPLOYEES 146,200</div>	 <div>TYPE Market Basket Analysis</div>

PURPOSE:

Coca-Cola uses an algorithm to ensure that its orange juice has a consistent taste throughout the year. The algorithm incorporates satellite imagery, crop yields, consumer preferences and details about the flavours that make up a particular fruit in order to determine how the juice should be blended.



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6. PREDICT SECURITY THREATS

Big data analytics can track trends in security breaches and allow companies to proactively go after threats before they strike.



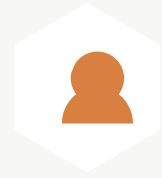
COMPANY

Rabobank



INDUSTRY

Finance



EMPLOYEES

27,000



TYPE

Predict Security
Threats

PURPOSE:

Rabobank analysed criminal activities at ATMs to determine factors that increased the risk of becoming victimized. It discovered that proximity to highways, weather conditions and the season all affect the risk of a security threat.



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COMPANY

Amazon



INDUSTRY

Online Retail



EMPLOYEES

110,000



TYPE

Predict Security Threats

PURPOSE:

With more than 1.5 billion items in its catalog, Amazon has a lot of product to keep track of and protect. It uses its cloud system, S3, to predict which items are most likely to be stolen, so it can better secure its warehouses.



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7. FRAUD DETECTION

Financial firms use big data to help them identify sophisticated fraud schemes by combining multiple points of data.

ZIONS BANK®



COMPANY

Zion's Bank



INDUSTRY

Finance



EMPLOYEES

2,700



TYPE

Fraud Detection

PURPOSE:

Zions Bank uses data analytics to detect anomalies across channels that indicate potential fraud. The fraud team receives data from 140 sources—some in real-time—to monitor activity, such as if a customer makes a mobile banking transaction at the same time as a branch transaction.



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COMPANY

Discovery Health



INDUSTRY

Insurance



EMPLOYEES

5,000



TYPE

Fraud Detection

PURPOSE:

Discovery Health uses big data analytics to identify fraudulent claims and possible fraudulent prescriptions. For example, it can identify if a healthcare provider is charging for a more expensive procedure than was actually performed.



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COMPANY

Memorial
Healthcare



INDUSTRY

Healthcare



EMPLOYEES

Enterprise



TYPE

Fraud Detection

PURPOSE:

Memorial Health Care uses data analytics to vet vendors and to uncover unethical activities, such as bid rigging.



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8. INDUSTRY SPECIFIC

Virtually every industry has invested in big data to help solve specific challenges those industries face. Healthcare, for example, uses big data to improve patient outcomes, and agriculture uses data to boost crop yields.



COMPANY

Kayak



INDUSTRY

Travel



EMPLOYEES

101



TYPE

Industry Specific

PURPOSE:

Kayak uses big data analytics to create a predictive model that tells users if the price for a particular flight will go up or down within the next week. The system uses one billion search queries to find the cheapest flights, as well as popular destinations and the busiest airports. The algorithm is constantly improved by tracking the flights to see if its predictions are correct.



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COMPANY

Aurora Health Care



INDUSTRY

Health Care



EMPLOYEES

30,000



TYPE

Industry Specific

PURPOSE:

Aurora collects internal as well as national data in order to create a benchmark for healthcare quality. It also analyzes data on groups of patients with similar medical conditions, to reveal trends in the diseases and to identify the right candidates for medical research. Finally, the real-time data analysis allows Aurora to predict and improve patient outcomes ,and so far has reduced readmissions by 10 percent.



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COMPANY
Catalyst IT



INDUSTRY
H.R/Recruiting
Technology



EMPLOYEES
130+



TYPE
Industry Specific

PURPOSE:

Catalyst IT Services built a program to screen job candidates based on how the candidate completed a survey. The program collects thousands of data points, such as how the candidate approaches a difficult question to determine how the candidate works. Since implementing the program, employee turnover at the company has been reduced to 15 percent.



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COMPANY
Shell



INDUSTRY
Oil



EMPLOYEES
87,000



TYPE
Industry Specific

PURPOSE:

Shell uses sensor data to map its oil and gas wells in order to increase output and boost the efficiency of its operations. The data received from the sensors is analyzed by artificial intelligence and rendered in 3D and 4D maps.



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COMPANY

John Deere



INDUSTRY

Farming



EMPLOYEES

60,000



TYPE

Industry Specific

PURPOSE:

Sensors placed on John Deere equipment, along with historical and real-time data on soil conditions, the weather and crop features are all used together to help farmers determine where and when to plant to get the highest yield, and how to boost the efficiency of their work to reduce fuel costs.



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TOP 10

BIG DATA COMPANIES BY REVENUE

1



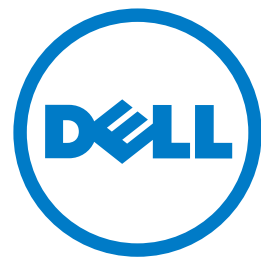
2



3



4



5



6



7



8



9



10



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