

Digital Developments using Machine Learning

IBM

(Machine Learning)

IBM uses machine learning in partnership with MAP Health Management to predict patients who are most at risk for relapse and offer customized treatment options.

PayPal

(Machine Learning)

PayPal is using machine learning to fight money laundering. PayPal has several machine learning tools that compare billions of transactions and can accurately differentiate between what is a legitimate and fraudulent transaction amongst the buyers and sellers.

Autotrader

(Machine Learning)

Autotrader Uses machine learning to provide customers with more accurate car valuations. This helps Autotrader meet customers' growing expectations and demand for data.

American Express

(Machine Learning)

American Express uses machine learning to provide card members with personalized offerings based on their historic spending patterns and use of previous offers.

Medtronic

(Machine Learning)

Medtronic partners with Garmin to provide activity trackers that allow patients to remotely monitor health and wellness, improving post-discharge care. Support providers use the data from these devices to more accurately monitor and care for patients.

AmerisourceBergen

(Machine Learning)

AmerisourceBergen uses integrated solution leveraging real-time feedback from associate-driven verifications along with machine learned algorithm to predict benefit verification outputs relative to the inputs provided by HCPs and Patients.

IBM

(Cognitive Intelligence)

IBM's Watson uses advanced natural language capability to uncover the best possible answer with available unstructured data. Manipal Hospitals in India are adopting Watson to help with cancer diagnosis and to provide personalized health care.

Infervision

(Machine Learning)

In China, where there aren't enough radiologists to keep up with the demand of reviewing 1.4 billion CT scans each year to look for early signs of lung cancer. Radiologists need to review hundreds of scans each day which is not only tedious, but human fatigue can lead to errors. Infervision trained and taught algorithms to augment the work of radiologists to allow them to diagnose cancer more accurately and efficiently.

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IBM

(Machine Learning)

Music-generating algorithms are now inspiring new songs. Given enough input—millions of conversations, newspaper headlines and speeches—insights are gleaned that can help create a theme for lyrics. There are machines such as Watson BEAT that can come up with different musical elements to inspire composers. AI helps musicians understand what their audiences want and to help determine more accurately what songs might ultimately be hits.

American Express

(Machine Learning)

American Express processes \$1 trillion in transaction and has 110 million AmEx cards in operation. They rely heavily on data analytics and machine learning algorithms to help detect fraud in near real time, therefore saving millions in losses. Additionally, AmEx is leveraging its data flows to develop apps that can connect a cardholder with products or services and special offers. They are also giving merchants online business trend analysis and industry peer benchmarking.

Google

(Machine Learning)

Neuroscience is the inspiration and foundation for Google's DeepMind, creating a machine that can mimic the thought processes of our own brains. While DeepMind has successfully beaten humans at games, what's really intriguing are the possibilities for healthcare applications such as reducing the time it takes to plan treatments and using machines to help diagnose ailments.

John Deere

(Machine Learning)

John Deere is getting data-driven analytical tools and automation into the hands of farmers. They acquired Blue River Technology for its solution to use advanced machine learning algorithms to allow robots to make decisions based on visual data about whether or not a plan is a pest to treat it with a pesticide. The company already offers automated farm vehicles to plough and sow with pinpoint-accurate GPS systems and its Farmsight system is designed to help agricultural decision-making.

Uber

(Machine Learning)

One of Uber's biggest uses of machine learning comes in the form of surge pricing, a machine learning model nicknamed as "Geosurge" at Uber. If you are getting late for a meeting and you need to book an Uber in crowded area, get ready to pay twice the normal fare. Uber leverages predictive modelling in real-time based on traffic patterns, supply and demand. Uber has acquired a patent on surge pricing. However, customer backlash on surge-pricing is strong, so Uber is using machine learning to predict where demand will be high so that drivers can prepare in advance to meet the demand, and surge pricing can be reduced to a greater extent.

HealthReveal

(Machine Learning)

HealthReveal uses historical data to monitor chronic conditions and recommend personalized care options.

Fanuc

(Machine Learning)

In Fanuc, a robot uses deep reinforcement learning to pick a device from one box and putting it in a container. Whether it succeeds or fails, it memorizes the object and gains knowledge and train's itself to do this job with great speed and precision.