



Did you know that our world generates approximately 2,5 quintillion bytes of data each day?

Burgeoning internet users, social media usage, emails, digital sevices, and

the rise of the Internet of Things, have contributed to this massive influx of data. So, the question is, how can we utilize this data to extract value? The answer: Machine Learning



content delivery and streaming platforms keep giving you content that you prefer?

Have you ever thought why



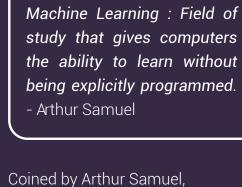
MACHINE LEARNING Defining Machine Learning:

DIGGING DEEP INTO

machine learning. It enables computers to learn fom interactions and data to generate insights.

An age when computers can learn by themselves lies not in the

near future, but now. Once a concept, it's now a reality known as



a pioneering figure in AI and ML back in 1959.



experience E with respect to some class of tasks T and performance measure P if its

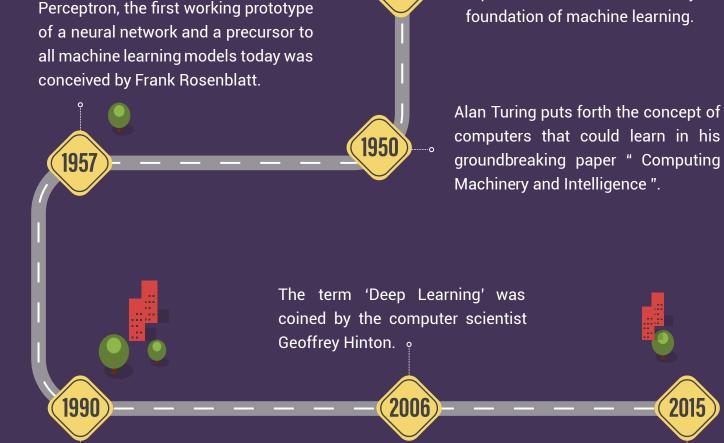
performance at tasks in T, as measured by P, improves with experience E. Tom M. Mitchell, Computer Scientist From content recommendations to intelligent business processes

machine learning has brought far-reaching changes into our lives. One could trace its roots centuries back where the groundwork was

THE

laid much before Charles Babbage made breakthroughs in computing. Statistical methods like Bayes' Theorem, Markov Chains and Least

Squares are discovered that lay the



MACHINE LEARNING **CATEGORIES**

Research and development in machine

learning undergoes a paradigm shift with

more emphasis on a data-driven

approach to analyze large stacks of data.

unveils

platform

accessible to developers all over

its

machine

making ML

Amazon

learning

the world.

under labels, which form the basis for reference and processing. For example, aiding a computer SUPERVISED distinguish between the images of two different

board games.

things, like cats or dogs.



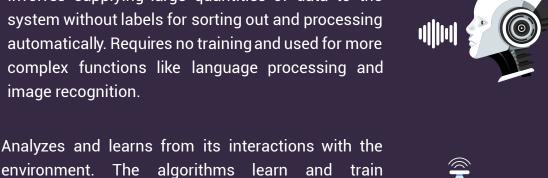
LEARNING

Involves supplying large quantities of data to the system without labels for sorting out and processing automatically. Requires no training and used for more complex functions like language processing and image recognition.

themselves through a continuous process of trial and

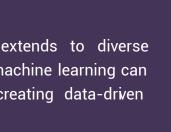
error. Its applications include self-driving cars to

Both the input and output data fed are classified



REINFORCEMENT I FARNING MACHINE LEARNING

The application of machine learning extends to diverse disciplines. Leveraging big data stacks, machine learning can deliver valuable insights to assist in creating data-driven decisions and intelligent processes.



Medical Research

Social Media

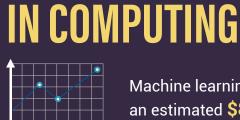
Product Recommendations

OF APPLICATIO

Computing and Recommendations and Diagnosis Intelligence

Search Engines

Content



Machine learning is a disruptive technology.

that will step up their Return on Investment (ROI).

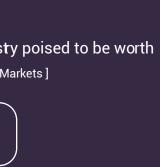
Self Driving Vehicles



Enterprise

Fraud Detection





Organizations who adopted

ML say it has given them

improved data analysis and

insights.

Source - MIT Technology Review and Google Cloud

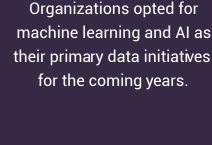
ML leverages big data and analytics to aid businesses turn raw data into actionable insights

Organizations have begun

adopting ML strategies into

their business.

Upsurge in data generated + Need for intelligent processes - Core factors driving global machine learning adoption.



What it holds for the future is a whole range of intelligent activity based entirely on data. You could shrink the world totally into a large data packet given the number of devices plugging in and generating information every day.

MACHINE LEARNING -





 Google's AlphaGo program represents a quantum leap of machine learning, beating even professional players in the

AT AN ML DISRUPTION IN THE NEAR FUTURE

PREDICTIONS HINT

New hardware, compliant and powerful

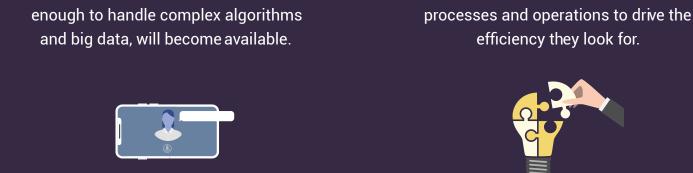
Natural Language Processing will

advance to the point where it clearly

mimics humans as it happened at the

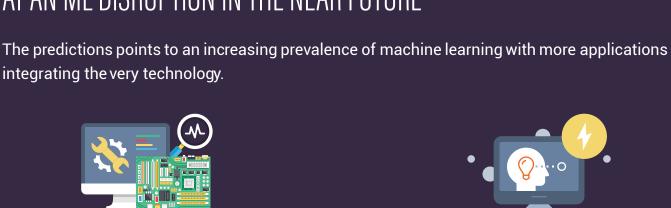
Google Duplex demo at the I/O, 2018.

integrating the very technology.



With the exponential development witnessed over the past few years, we can readily sum up the incredible worth of machine learning and intelligent computing in times to come.

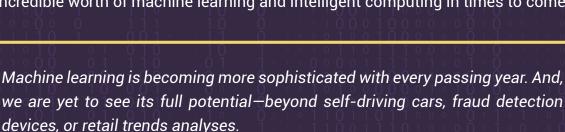
devices, or retail trends analyses.



and gather data to bring better insights for solving complex challenges.

ML algorithms will constantly retrain

More businesses will shift to intelligent



Wei Lei, Vice President and General Manager, Intel Corporation

References:

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USA | INDIA | UAE

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