



2018 Machine Learning

Facts & Figures



MARKET GROWTH

Spending in AI and ML

International Data Corporation (IDC) forecasts that spending on AI and ML will grow from **\$12B** in 2017 to **\$57.6B** by 2021.

Source: IDC



MARKET GROWTH

of Projects

Deloitte Global predicts the number of machine learning pilots and implementations **will double in 2018 compared to 2017, and double again by 2020.**

Source: IDC



MARKET GROWTH

of Patents

Machine learning patents **grew at a 34% Compound Annual Growth Rate (CAGR)** between 2013 and 2017, the third-fastest growing category of all patents granted.

Source: IFI Claims



KEY ENABLERS

Endless amounts of data

90% of the data that exists in the world was generated in the past 2 years.

Source: Forbes

Experts predict a **4,300% increase** in annual data production by 2020.

Source: Accenture

From online retail transactions to videos to social media to internet searches, the volume is hard to fathom.

Every MINUTE of every day in 2018:

- Amazon ships **1,111** packages
- **400** hours of video are uploaded to YouTube
- Google conducts **3,877,140** searches
- **2,083,333** snaps are sent on Snapchat

Source: Domo



KEY ENABLERS

Exponential growth in computing power

The most powerful supercomputer is **200x** as powerful as it was 10 years ago

2007

46 trillion, 200 billion calculations per second
478,200,000,000,000

2017

93 quadrillion calculations per second
93,000,000,000,000,000

Source: Our world in data



KEY ENABLERS

Precipitous decline in the cost of storage

HDD \$/GB

2000 - \$10

2005 - \$1

2010 - \$.10 (a dime)

Today - **\$.02 (2 pennies)**

Source: mkomu



TOP & TRENDING USE CASES

- Automated Customer Service Agents
- Diagnostic and Treatment Systems
- Intelligent Processing Automation
- Automated Preventative Maintenance
- Expert Shopping Advisors
- Public Safety and Emergency Response

Source: IDC



CASE STUDIES IN THE NEWS

Netflix saved **\$1 billion** as a result of its machine learning algorithm which recommends personalized TV shows and movies to subscribers.

Source: StatWolf



TOP & TRENDING USE CASES

Same-day shipping from Amazon is available because of machine learning. In fact, their current ML algorithm has decreased the **'click-to-ship' time by 225%.**

Source: Forbes



TOP & TRENDING USE CASES

Uber uses machine learning to improve arrival times, pick-up locations, and UberEATS' delivery estimations by **26%.**

Source: Red Pixie



MACHINE LEARNING JOBS

In 2020, AI will become a **positive net job motivator**, creating **2.3M jobs** while only eliminating 1.8M jobs.

Source: Gartner



MACHINE LEARNING JOBS

One AI specialist on staff will cost you a salary worth one 2017 Rolls-Royce Ghost Series II, or more. With salary and company stock, AI specialists can fetch compensation of **\$300,000 to \$500,000**

Source: New York Times