



An Explosion of Data



Growing by a factor of 7,040x



2020 35,200 Exabytes

Source: EMC, Forbes estimates

What is Enabling This Transition?















- Open Source: It's now cheap enough to store ALL the data vs. being selective
- AWS: infrastructure/scale for the masses
- Big Data laying groundwork for Machine Intelligence the "so what?"

What is Machine Learning?

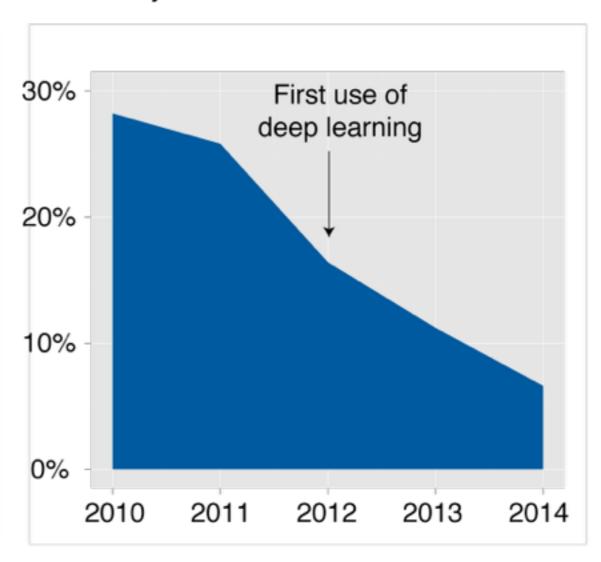
"A computer program is said to learn from experience E with respect to some class of tasks T and performance measure P, if its performance at tasks in T, as measured by P, improves with experience E."

- Tom Mitchell

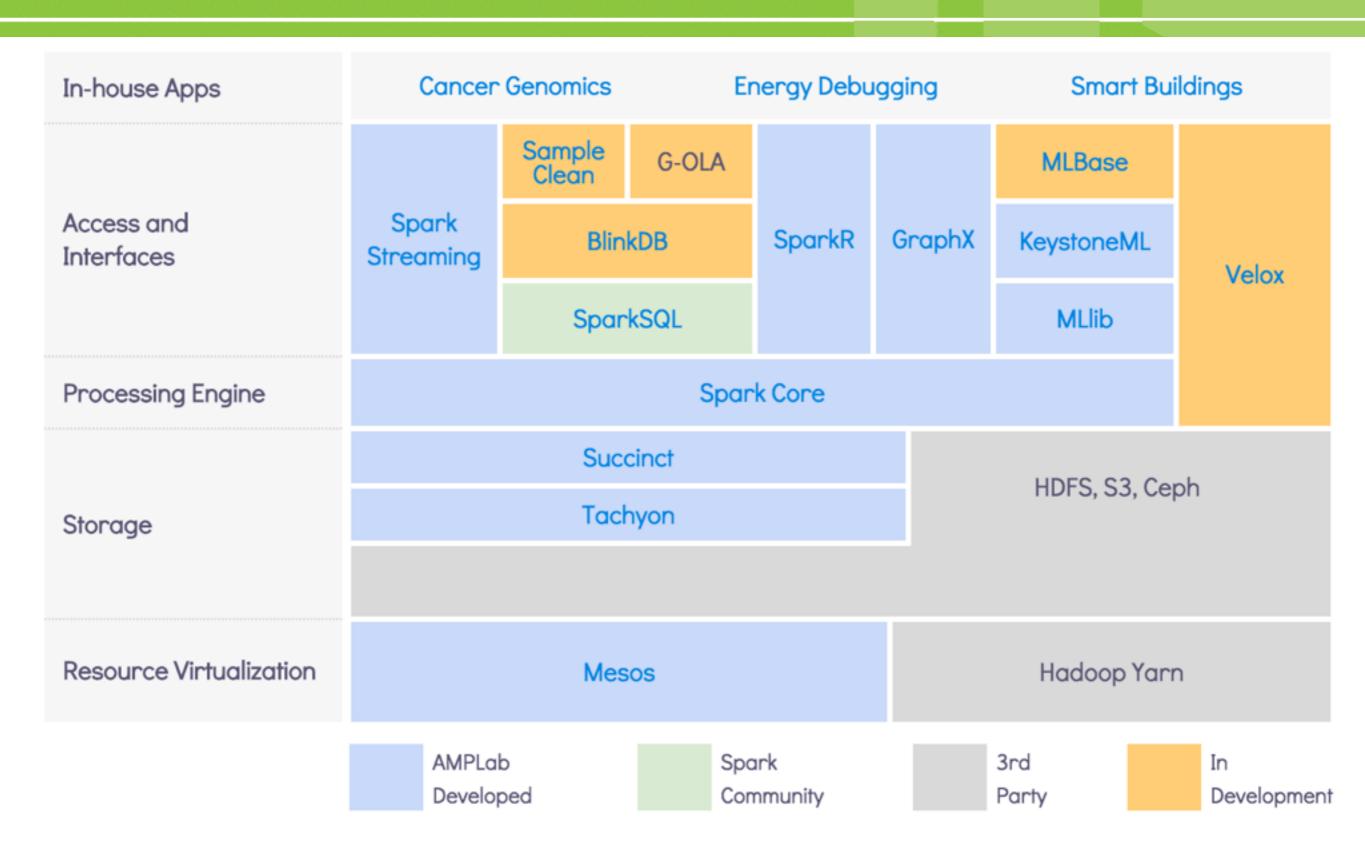
Deep Learning Becomes Very, Very Good

ImageNet examples

Objection classification error rate

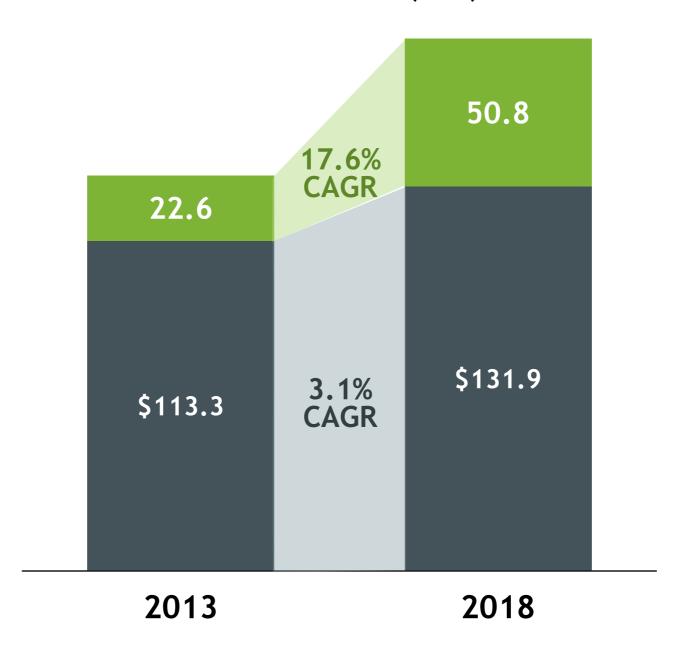


Recent Innovations in Distributed Computing

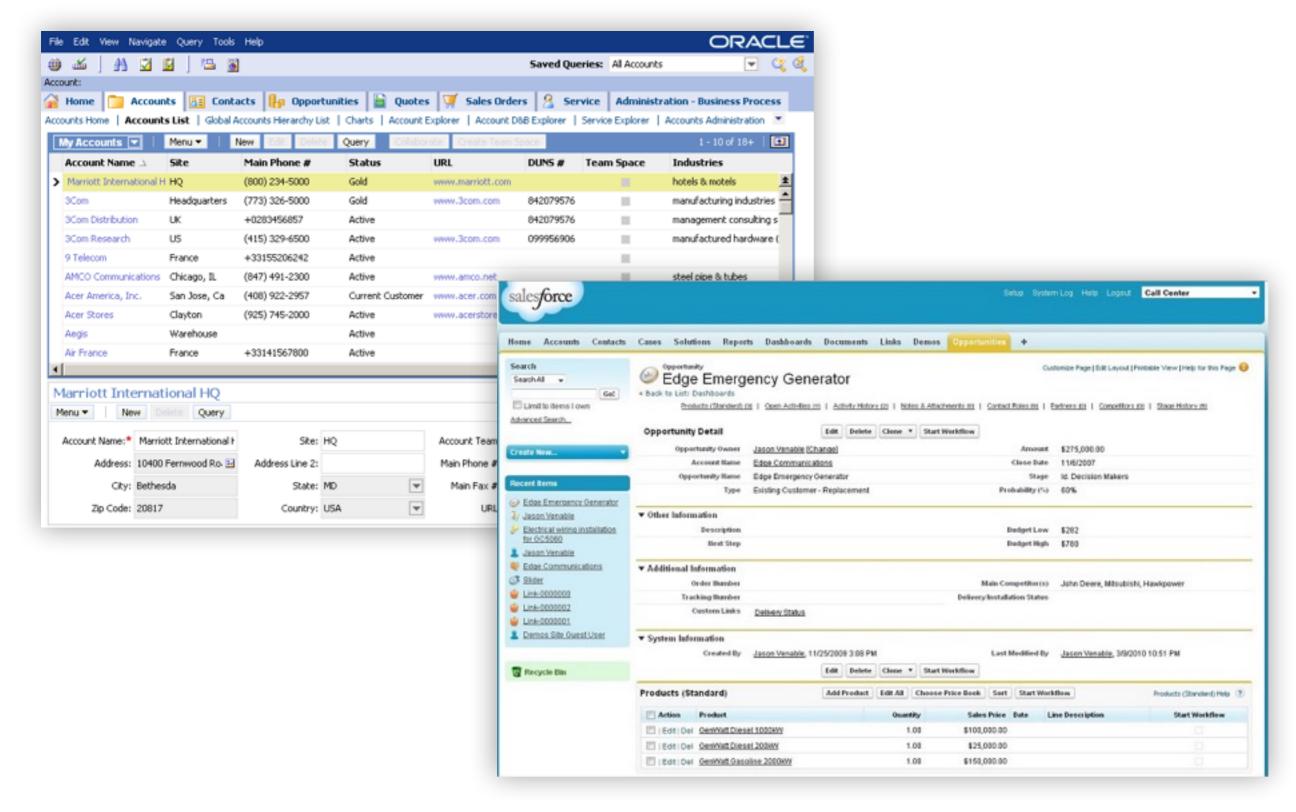


SaaS is Crushing Traditional Enterprise SW

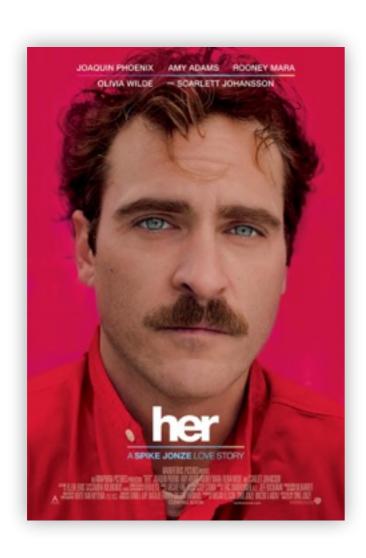
World Wide Enterprise Applications Market* (\$B)

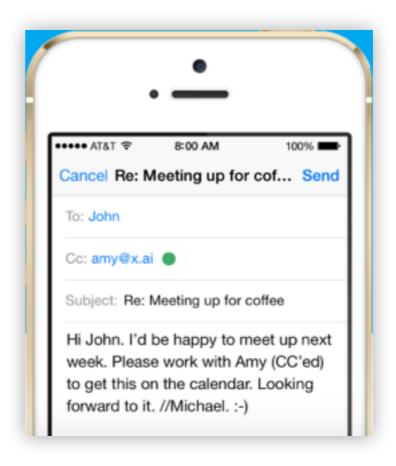


Not Much has Changed In 15 Years



Samantha (Her) vs. Amy (x.ai)





Machine Intelligence LANDSCAPE

CORE TECHNOLOGIES

ARTIFICIAL INTELLIGENCE

IBMWATSON I MetaMind A.Numenta ai-one



LEARNING



DEEP



MACHINE LEARNING

apidminer context Өхdатан, о а раталям. ALiftigater @ SWINGEROD Azure ML Shat Tuties Sense CrachLab Alpine Otoman

NLP **PLATFORMS**

idibon

cortical.io LUMINOSO Mit.ai Makub4

PREDICTIVE APIS

AlchemyAPI OMINDOPS Google o bigo indico ALGORITHMA Expect ₩PredictionIO Labs

IMAGE RECOGNITION

clarifai MADBITS DNNresearch DEXTRO VISENZE | lookflow

SPEECH RECOGNITION

◆ GRIDSPACE popup archive NUANCE

RETHINKING ENTERPRISE

SALES

Preact AVISO O RelateIO NG@DATA FRAMED

Infer ATTEMITY causata

SECURITY / AUTHENTICATION

CROSSMATCH C.Njur V ETEVEREY A BITSIGHT CYLANCE : 0 bionym



FRAUD DETECTION

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HR / RECRUITING

TalentBin catcle predikt Connectifier

MARKETING

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(*) Tellapart | people peopl

PERSONAL ASSISTANT

Siri X Google now cleversense O Cortana Rebinlabs tempo **fuse**lmachines KASISTO 1 **CLARA LABS**

INTELLIGENCE TOOLS

MADATAD Q Palantir Quid ■ FirstRain

RETHINKING INDUSTRIES

ADTECH

HETAMARKETS detillery erocketfuel YieldMo









EDUCATION







TriGental KENSHO



LEGAL

MLex Machina brightleaf @Brevia



MANUFACTURING

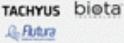
(O) SIGHT MICROSCAN **OIVISYS**





OIL AND GAS

kaggle AYASDI



AGRICULTURE



MEDIA / CONTENT

Outbrain newste ARRIA

SAILTHRU WOVII Own

NamativeScience / 83/500P 55 Summity



CONSUMER

Affirm Thlenture

Consider GUARD LendUp

IIILendingClub (Kabbase

FINANCE

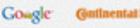
PHILANTHROPIES

FINANCE

DataKind thorn



AUTOMOTIVE





DIAGNOSTICS



RETAIL



RETHINKING HUMANS / HCI

AUGMENTED REALITY





GESTURAL COMPUTING

G. Gesturellik

△ Prismatic al



@ nod

ROBOTICS



EMOTIONAL RECOGNITION



SUPPORTING TECHNOLOGIES

HARDWARE



DATA PREP



DATA COLLECTION

