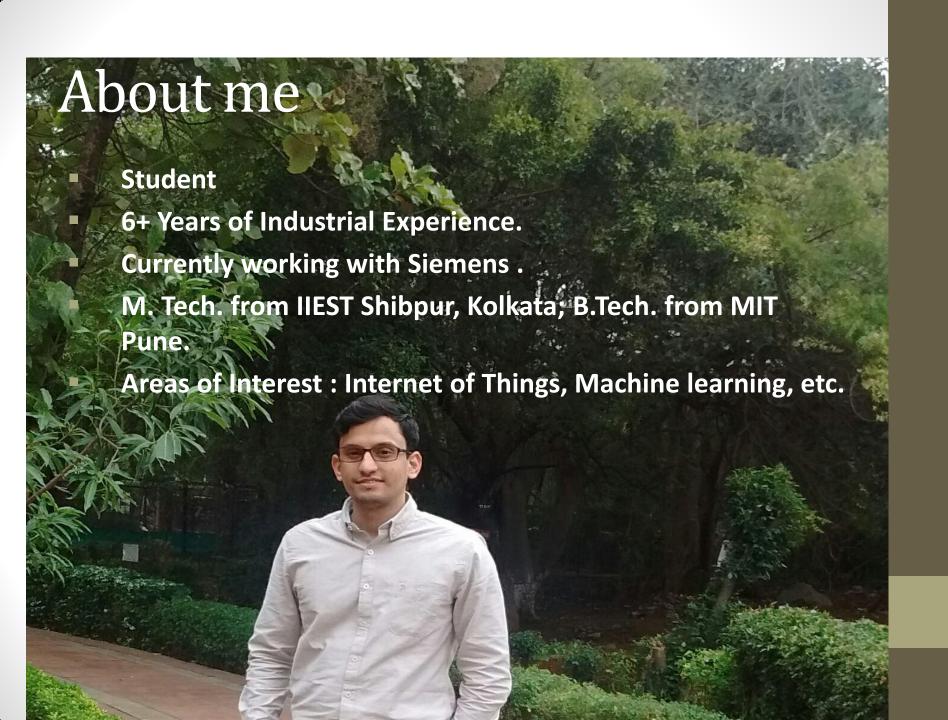


Machine Learning

By: Kunal Vyas Software Engineer, Siemens



Industry-research

Machine Learning Made For .NET

Machine Learning made for .NET is usually considered to be an opelearning framework. This Microsoft's ML.NET is again well support

Home > Features > IT Business Features

6th Mar 2019

Add to

Comments



How Expedia.com was built on machine learning

Manufacturing Operations: Machine Learning to Separate Actionable Trends from False Alarms

By: Bala Deshpande, Founding Partner, <u>SimaFore</u> & Chair, <u>PAW –</u> <u>Manufacturing</u>



Predictive analytics is increasingly becoming the object of value within many so-called traditional industries like manufacturing. While historically data generated by and in manufacturing is mostly structured, today unstructured data is also becoming a

ing is at the peak of the hype scale, but travel xpedia has been building its core business on y for the best part of a decade.



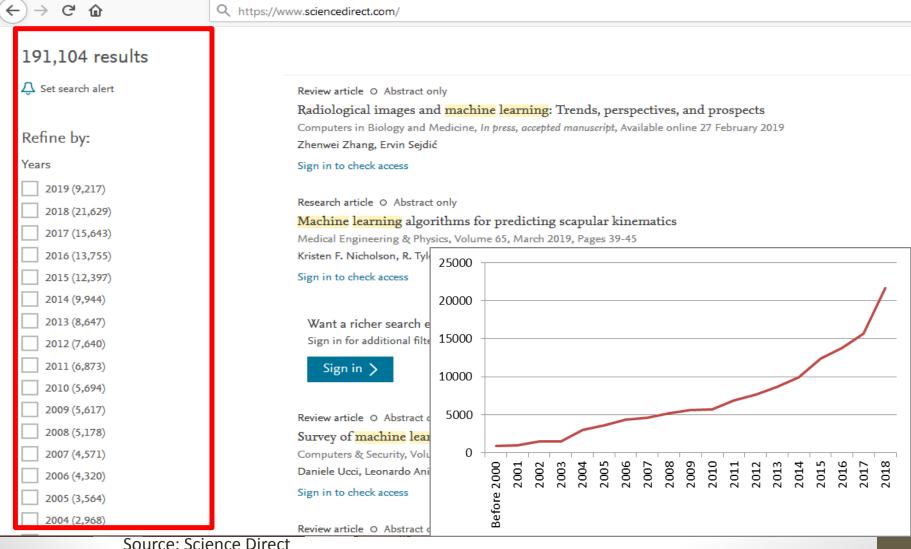
Scott Carey August 15, 2016

What eBay's Machine Learning Advances Can Teach IT Professionals

EBay has been gathering data and employing machine learning to connect more buyers to sellers and increase the trustworthiness of transactions. The use-cases are worth exploring for any IT professional looking to help improve a company's bottom line by applying machine learning to its customer-facing applications.

Source:Internet

Research publications



JOB Markets

Job Type

Full-time (27154)

Internship (1558)

Temporary (747)

Contract (517)

Part-time (372)

Commission (150)

Location

Seattle, WA (2895)

New York, NY (2071)

San Francisco, CA (1793)

Boston, MA (761)

Chicago, IL (745)

+ more »

Company

Amazon.com (3465)

Deloitte (704)

Microsoft (669)

Accenture (570)

Capital One (366)

+ more »

Experience Level

Mid Level (12438)

Data Scientist, Machine Learning

Qualcomm ★★★★☆ 1,275 reviews

San Diego, CA

Applied Machine Learning fundamentals such as decision trees, neural networks, statistical modeling, and/or clustering....

18 hours ago save job more...

Software Intern, Machine Learning

Cadence Design Systems ★★★★☆ 161 reviews

San Jose, CA 95129 (West San Jose area)

The Cadence Digital and Signoff Group Machine learning

team is a high energy team which evolutes and implements
Deep and Machine Learning

1 day ago save job more...

Data Scientist - Mac

American Express ***

New York, NY

Collaborating with internal prolaunch machine learning propractical experience in buildi

6 hours ago save job more...

Machine Learning

EY ★★★☆ 5,983 reviews



Machine Learning Jobs, 6415 Machine Learning Openings - Naukri.com

https://www.naukri.com/machine-learning-jobs •

Apply to 6415 Machine Learning Jobs on Naukri.com, India's No.1 Job Portal. Explore Machine Learning Openings in your desired locations Now!

Machine Learning Jobs in Hyderabad Secunderabad - 198 Machine ...

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Apply to 198 Machine Learning Jobs in Hyderabad Secunderabad on Naukri.com, India's No.1 Job Portal. Explore Machine Learning job openings in ...

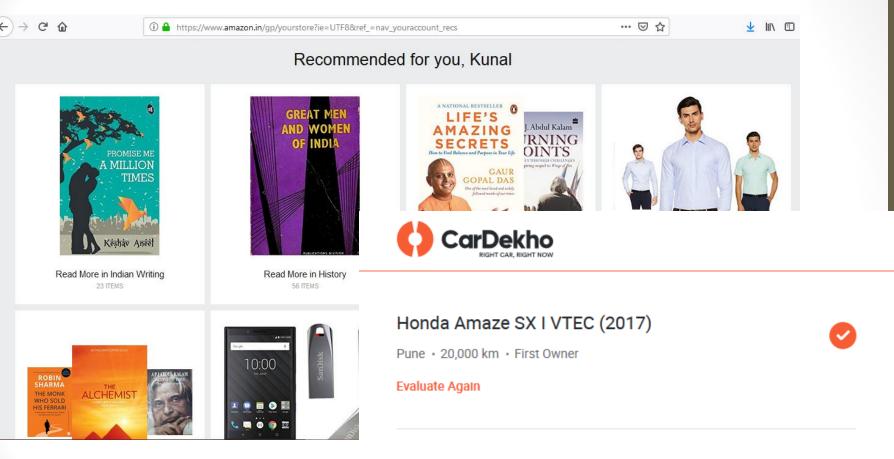
561 Machine Learning jobs in Hyderabad Area, India - LinkedIn

https://in.linkedin.com/jobs/machine-learning-jobs-hyderabad-area-india

Jobs 1 - 25 of 561 - Today's top 561 Machine Learning jobs in Hyderabad Area, India. Leverage your professional network, and get hired. New Machine Learning ...

Source: Indeed.com, google.com

Real Life



Market Value of Honda Amaze SX i VTEC

Recommended car price to be in between

₹ 5.40 Lakh

GOOD CONDITION

₹ 5.64 Lakh

SUPERB CONDITION

Source: amazon.co.in, cardekho.com

ML History

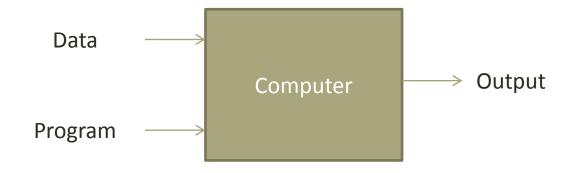
- 1950's: Arthur Samuel: checker playing program. Coined the term "Machine Learning" in 1959.
- 1960's: Frank Rosenblatt's perceptron, constructed according to biological principles.
 - Marvin Minsky & Seymour Papert: Single perceptron incapable of learning EXOR problem. Neural Network research went dormant.
- 1980s: Ross Quinlan: Developed Decision trees. i.e. ID3 algorithm.
- 1990s: Machine Learning, Statistics, Multi Layer Perceptron, Support Vector Machine, Reinforcement Learning etc. developed.
- 1997: IBM Deep Blue beats Gary Kasparov

ML History

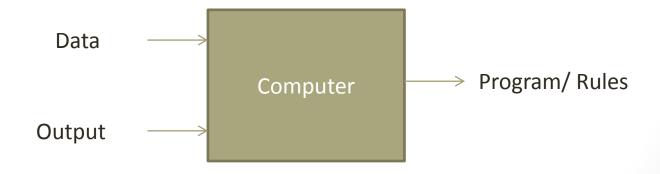
Why recent popularity?

- Internet and generation of data.
 - Big Data
 - Internet of Things.
- Cloud availability and New Hardware .
 - GPU's
- New algorithms.
 - Deep Learning
 - Neural Networks
- New applications.
 - Medical Science, Computational Biology.
 - Autonomous vehicles, Robotics.
 - Computer Vision, OCR, Object detection, etc.

ML Vs. Traditional programming



Traditional Programming



Machine Learning

ML -defined

- A computer program is said to learn from experience E with respect to some class of tasks T and performance measure P, its performance at tasks in T as measured by P, improves with experience.
- Improving performance via experience
- Learning= Improving with experience at some task
 - Improve over T
 - With respect to performance measure P
 - Based on experience E

ML- Examples

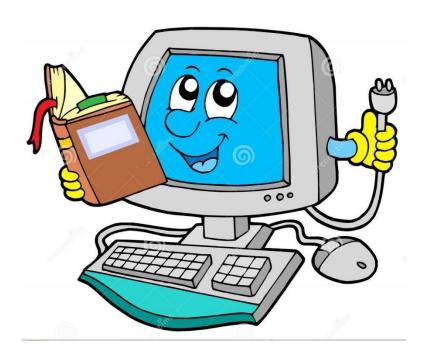
Chess Learning problem

- Task T: Playing chess
- Performance Measure P: Number of games won against opponents.
- Experience E: playing practice games against itself or opponents.

Autonomous Vehicle Driving problem

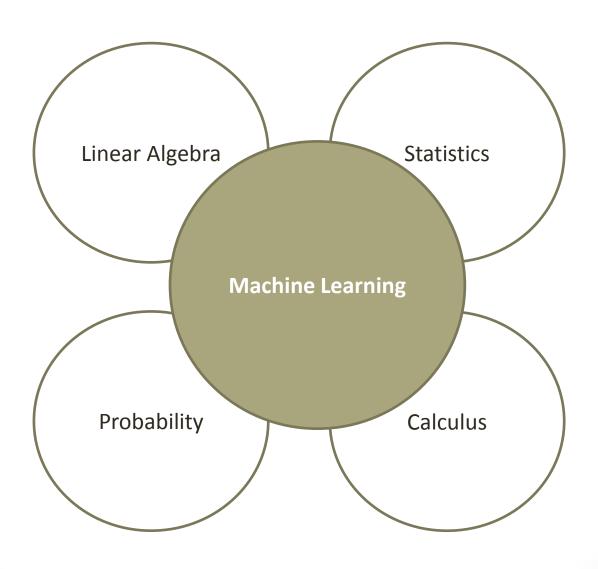
- Task T: driving vehicle
- Performance Measure P: Number of accidents involved.
- Experience E: Inter-vehicle communication, sensor inputs.

ML-Perception



Machine learning by itself

ML-Practical



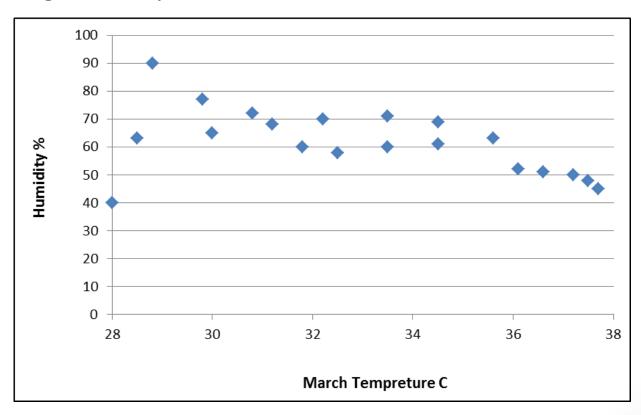
• Pune: Day temperature Vs. Humidity for 20 days

Temperature C	Humidity %
28	40
28.5	63
30	65
31.2	68
32.2	70
33.5	71
34.5	69
28.8	90
29.8	77
30.8	72
31.8	60
32.5	58
33.5	60
34.5	61
35.6	63
36.1	52
36.6	51
37.2	50
37.5	48
37.7	45

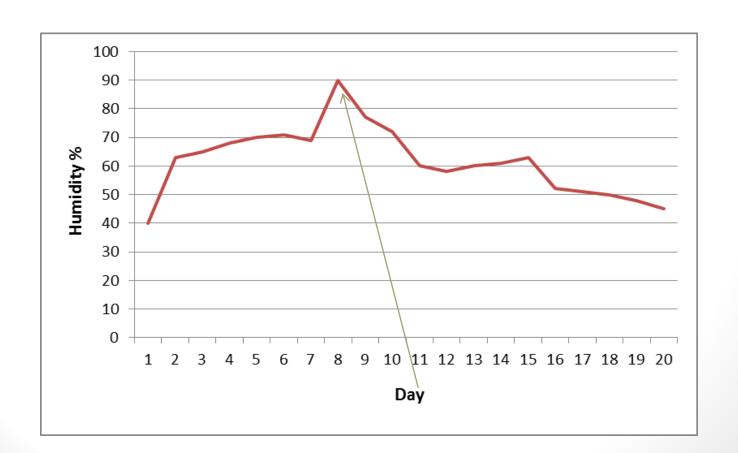
Statistics:

Avg. Temperature: 33 C

Avg. Humidity: 61.65 %

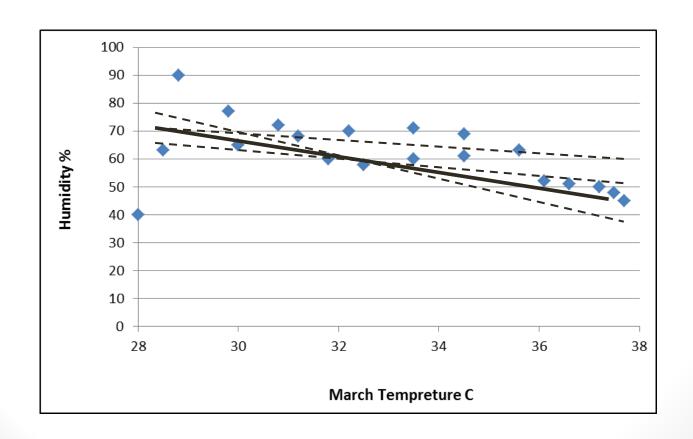


- Probability:
 - Why sudden increase on day 9? Thundershowers



• Calculus:

Finding relationship between Humidity and Temperature



- Linear Algebra:
- Pune: Day temperature Vs. Humidity for 20 Years

Or

Complete India's Day temperature Vs. Humidity for 20 Years

Thank You!