Machine Learning & A. I.

October 01 2016



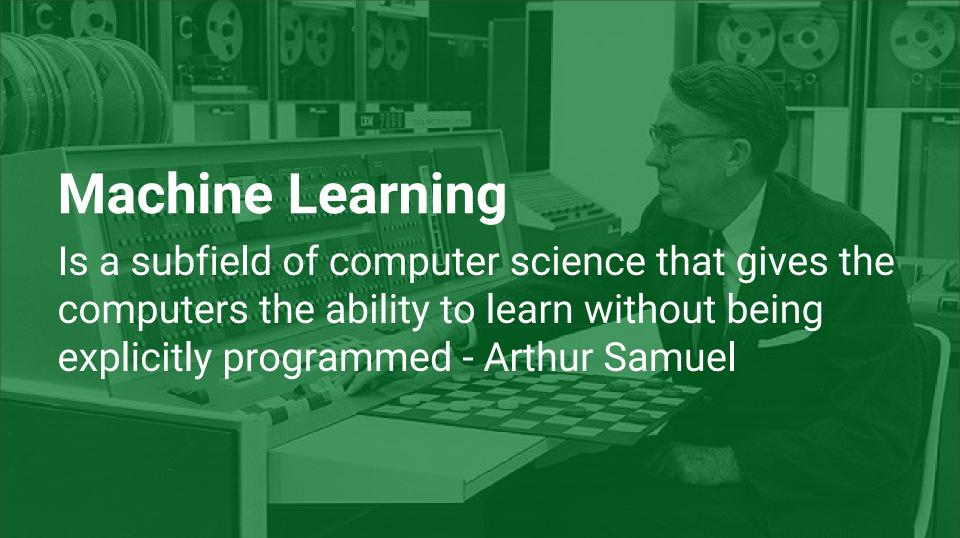
Hi, I'm **Jordan**!

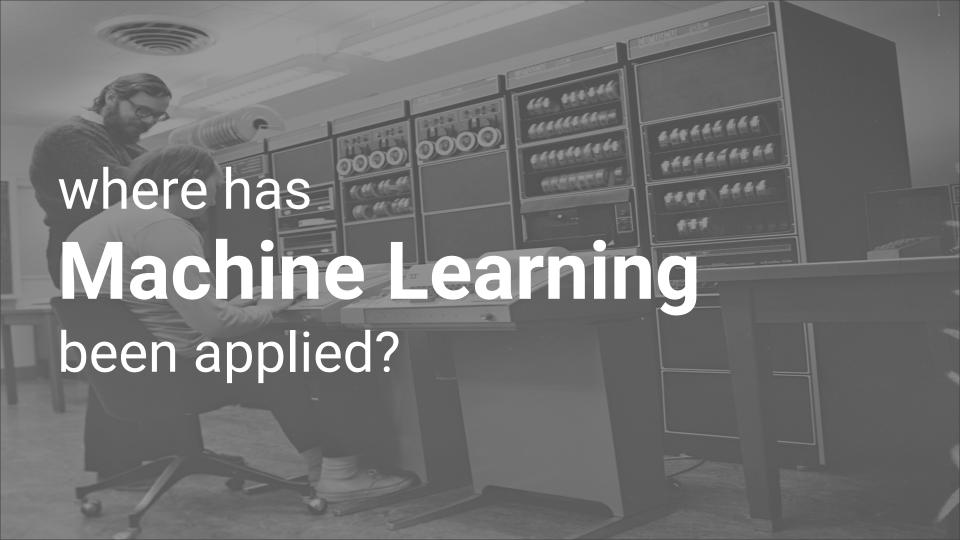
I'm part of a lab where we do research in machine learning and hci



why talk about Machine Learning?

- computer engineers need it
- Beyond sensors and IoT there's gonna be a model for it





1994

ALVINN

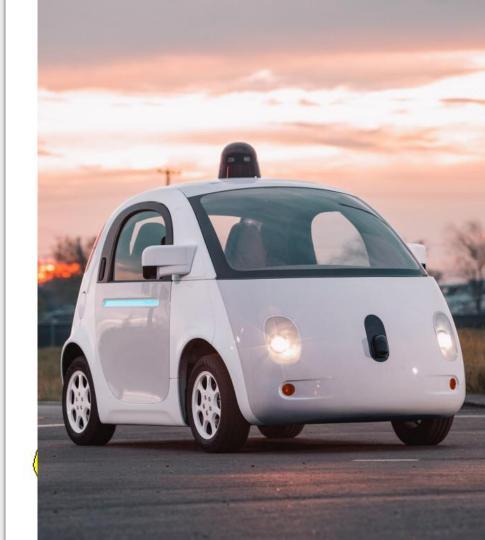
- Automated Land Vehicle with Neural Network
- First vehicle to cross the US Coast in 6 days totally unmanned



2016

Google Self Driving Car

Integrates cloud, gps and video and image processing



1997

Deep Blue

Deep Blue II
 defeated Gary
 Kasparov, long
 time Chess
 Grandmaster

May 11th, 1997

Computer won world champion of chess

(Deep Blue) (Garry Kasparov)



(Reuters = Kyodo News)

Google DeepMind wins Alpha Go



so now we ask...

how can computer engineers make use of machine learning?

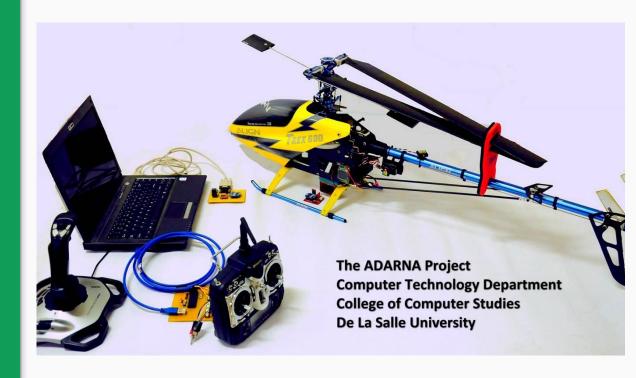
On images translation

 Instantly translate foreign words into your preferred language



On surveying "drones"

 Like the ADARNA project for aerial surveying, remote navigation and monitoring



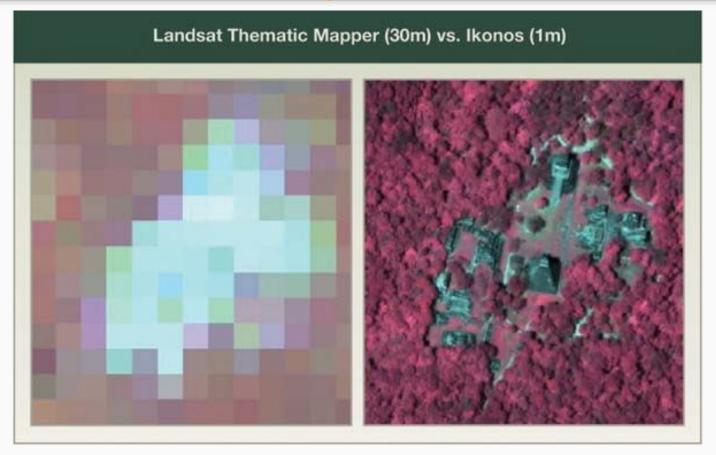
Or better yet

Sky-catch drones



See what NASA did

Used Satellites to find Mayan ruins



Remember the PH satellite?

Diwata?



Processing:

Machine learning can enable us to integrate hardware with intelligent code so we can try out new "interactions"

check out Myo

Myo has been integrated

with prosing arms

to allow smoother control

"Em sense" senses thru touch an items electromagnetic waves and provides a suggestion on how to use that object

think of it:
There are jobs now that did
not exist 5 years ago

Machine Learning Empowered jobs

Augmented Reality designer

Drone Operations Handler

Human Organ Designer

Artificial Personality
Designer

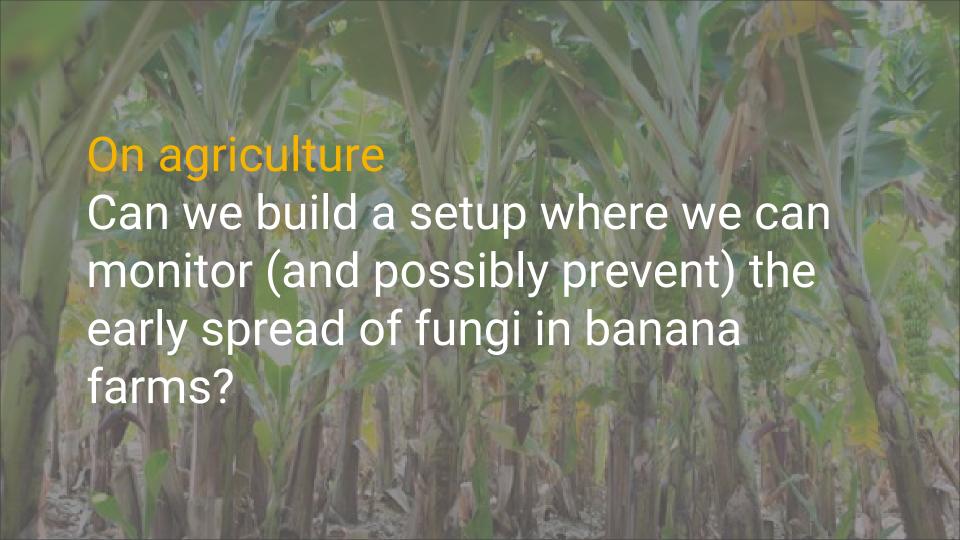
Al Customer Service

Supervisor

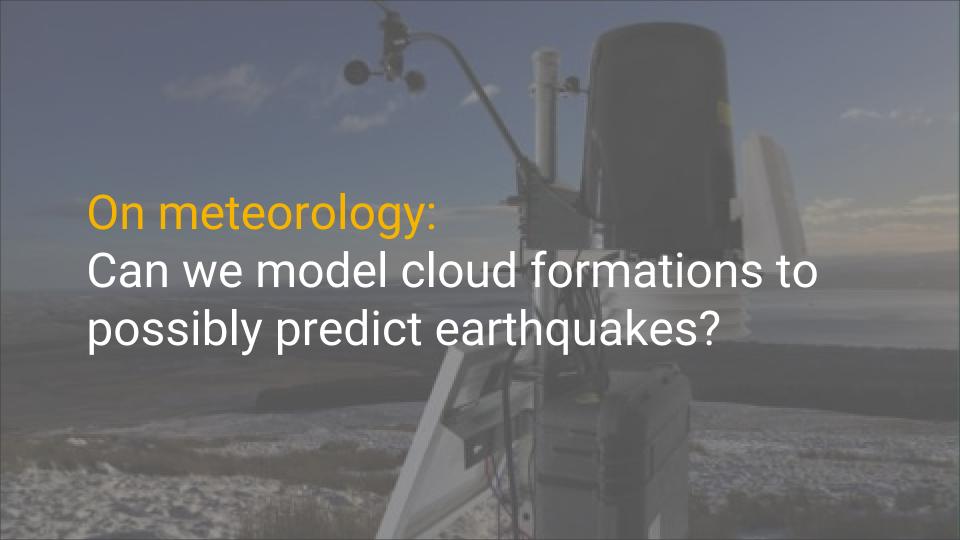
Suicide Hotline Agent

Data Scientist, Engineers

reflection: but Machine Learning still has a long way to go







Planes dont flap their wings to fly, but birds dont take off from trees either.

A car can run faster than a cheetah, but it can never climb a tree.

Thank you for listening!

For your questions, partnerships and other concerns you may contact me via: jordan.deja@dlsu.edu.ph
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