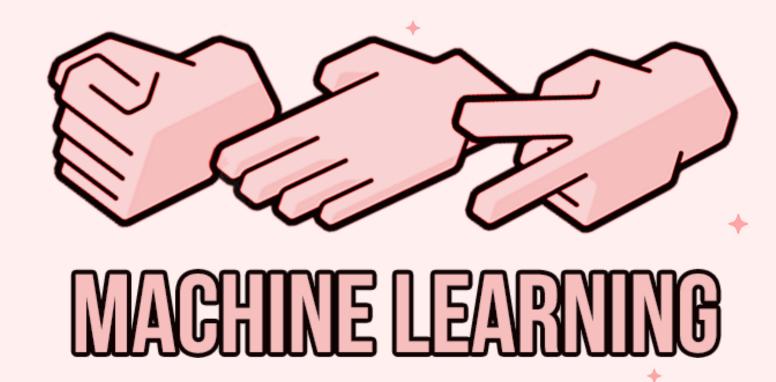
JOIN THE REVOLUTION

of









CIO of Infinite Red



- CIO of Infinite Red
- React Native Core Contributor



- CIO of Infinite Red
- React Native Core Contributor
- Machine Learning Enthusiast



Connect Up

More About Me:

https://infinite.red/

http://gantlaborde.com/

@GantLaborde Twitter

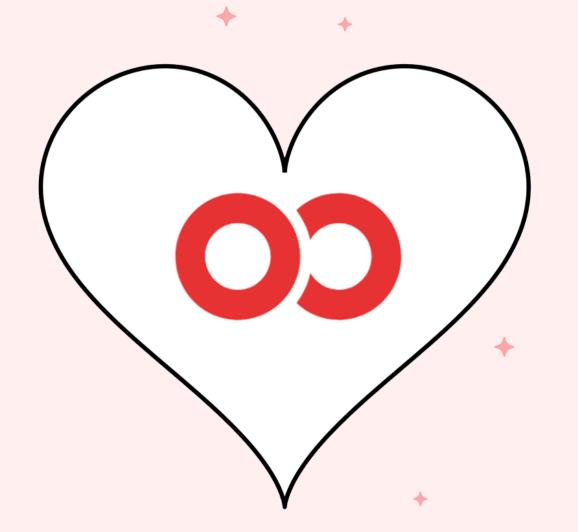


THANKS

INFINITE RED

Let them know!:

@infinite_red



Machine Learning?





Machine Learning?

"Write once, train for anywhere"





Machine Learning?



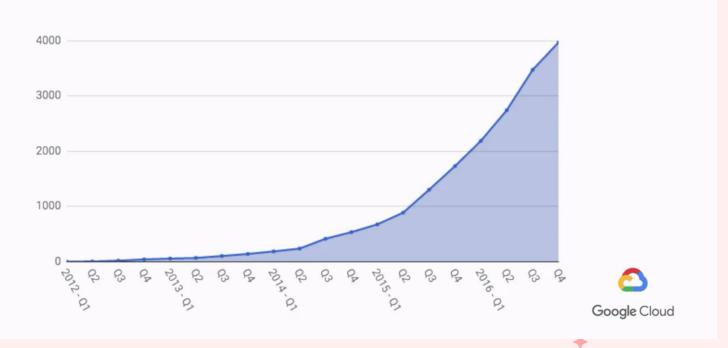
Machine Learning?





Machine Learning?

There are over 4000 TensorFlow machine learning models in production at Google, and it has transformed our company





Machine Learning What does it do?

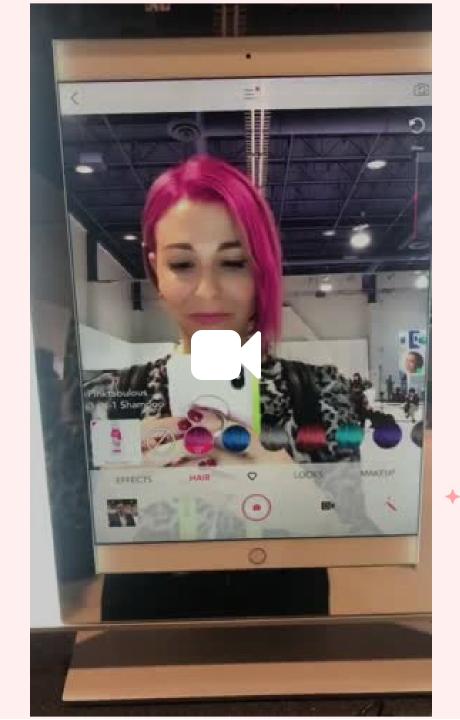




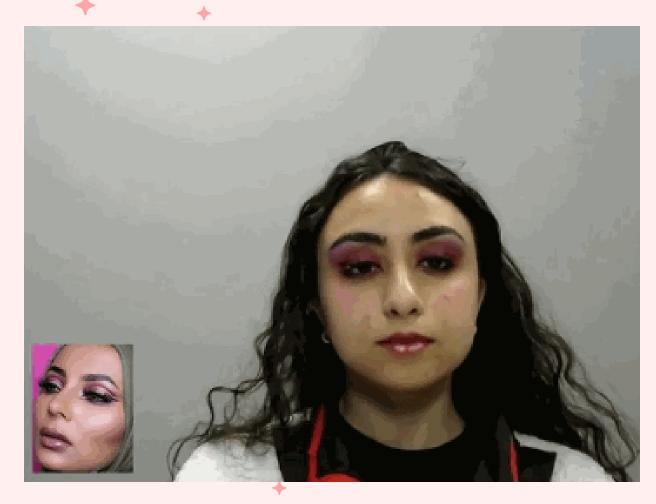


Machine Learning What does it do?

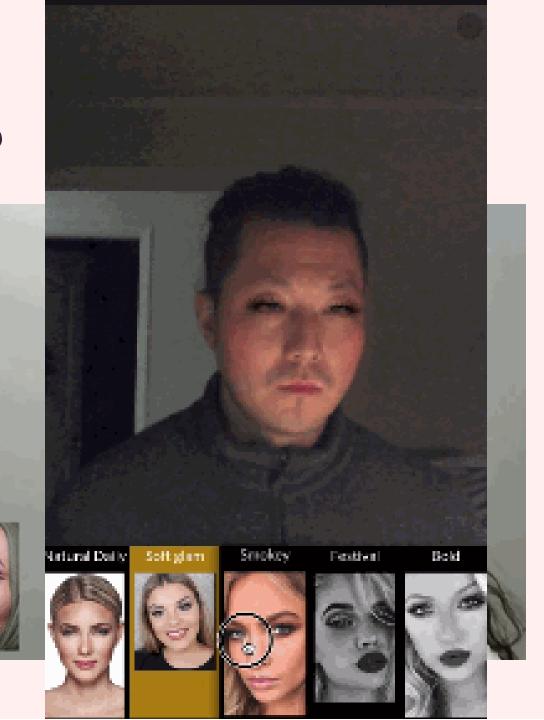
- Region Detection
- Style Transfer

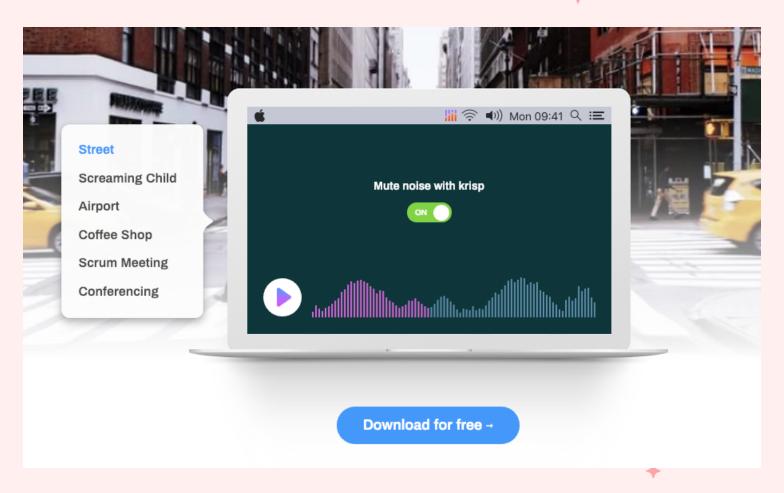












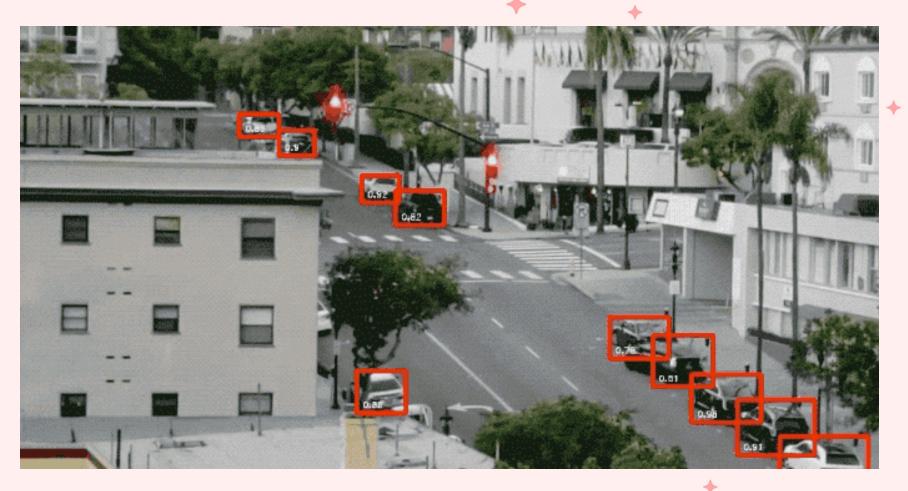










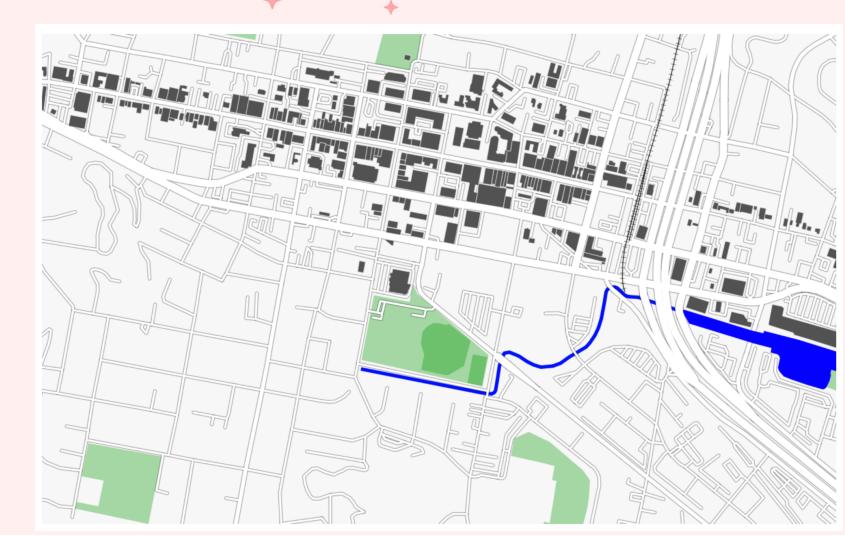




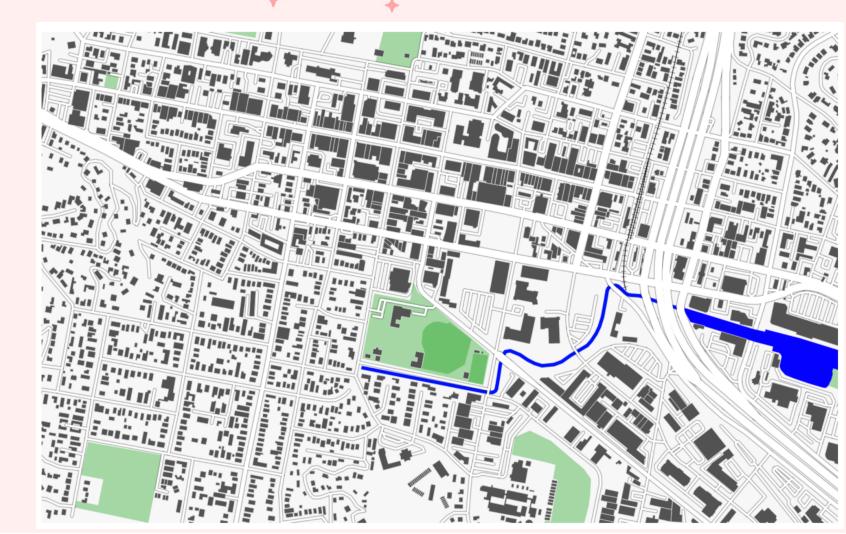
Machine Learning What

Should it do?

What should it do?



What should it do?



What should it do?





Machine Learning What should it do?



What should it do?

AI outperforms human doctors in spotting skin cancer

The algorithm makes its easier and faster to get an early diagnosis.



Rachel England, @rachel_england

1 Comments 761 Shares





What should it do?

AI outperform spotting skin

MENU V

nature > nature biomedical engineering > articles > article

nature biomedical engineering

The algorithm makes its easie



Rachel England, @rachel_englar 05.29.18 in Medicine



Article | Published: 10 October 2018

Explainable machine-learning predictions for the prevention of hypoxaemia during surgery

Scott M. Lundberg, Bala Nair, Monica S. Vavilala, Mayumi Horibe, Michael J. Eisses, Trevor Adams, David E. Liston, Daniel King-Wai Low, Shu-Fang Newman, Jerry Kim & Su-In Lee ■

Nature Biomedical Engineering 2, 749–760 (2018) | Download Citation ±



What should it do?

AI outperform spotting skin

The algorithm makes its easie



nature > nature biomedical engineering > arti
nature
biomedical engineerin



Rachel England, @rachel_englar 05.29.18 in Medicine



Article | Published: 10 October 2018

Explainable machine-le for the prevention of hysurgery

Scott M. Lundberg, Bala Nair, Monica S. Vavilala, Mayu David E. Liston, Daniel King-Wai Low, Shu-Fang Newm

Nature Biomedical Engineering 2, 749–760 (2018) | D

IBM Research develops fingerprint sensor to monitor disease progression

Frederic Lardinois @fredericl / 1 month ago









Applications





What is it?



Machine Learning What is it?



Machine Learning What is it?

Model \$

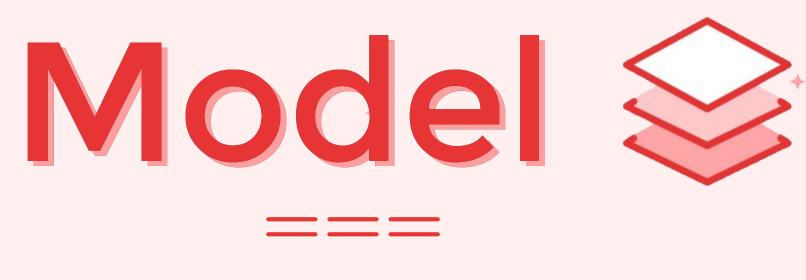


Machine Learning What is it?



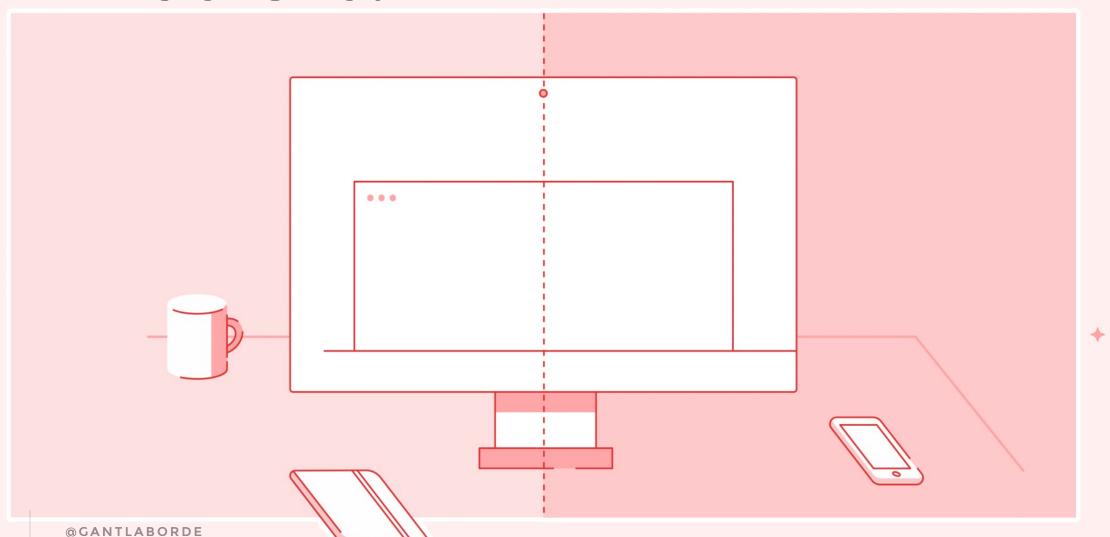


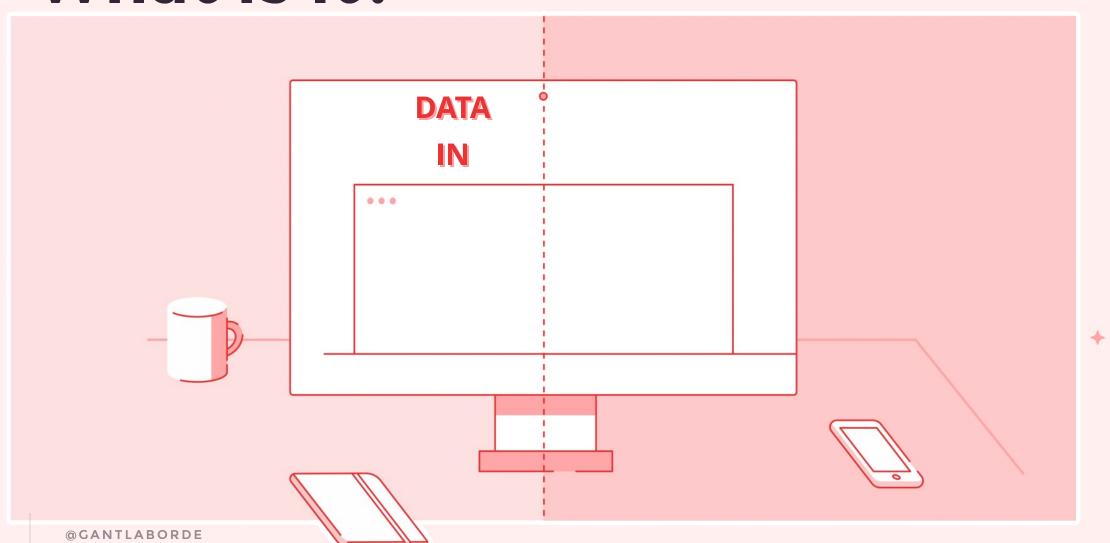
Machine Learning What is it?



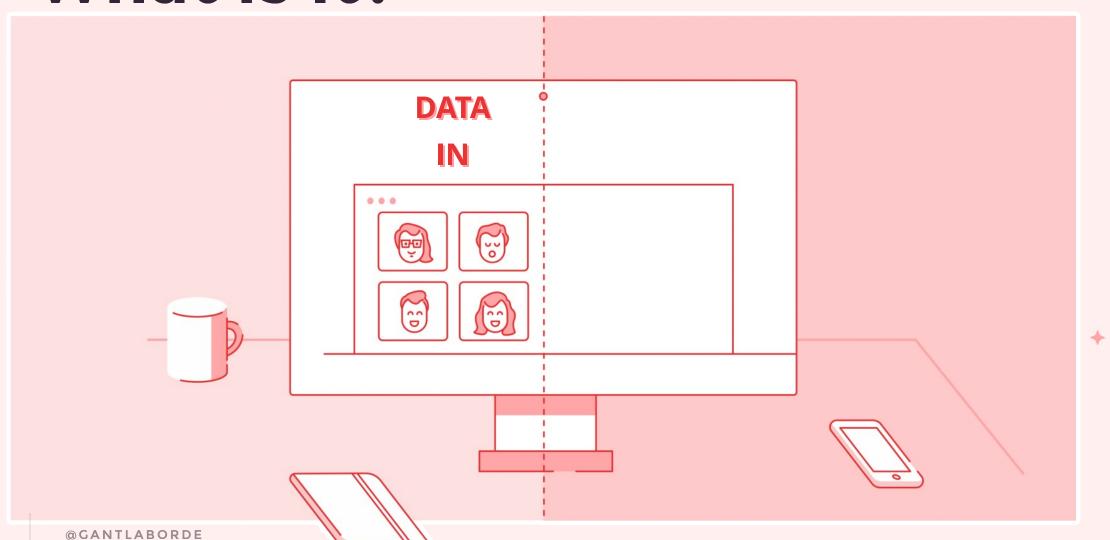
function()

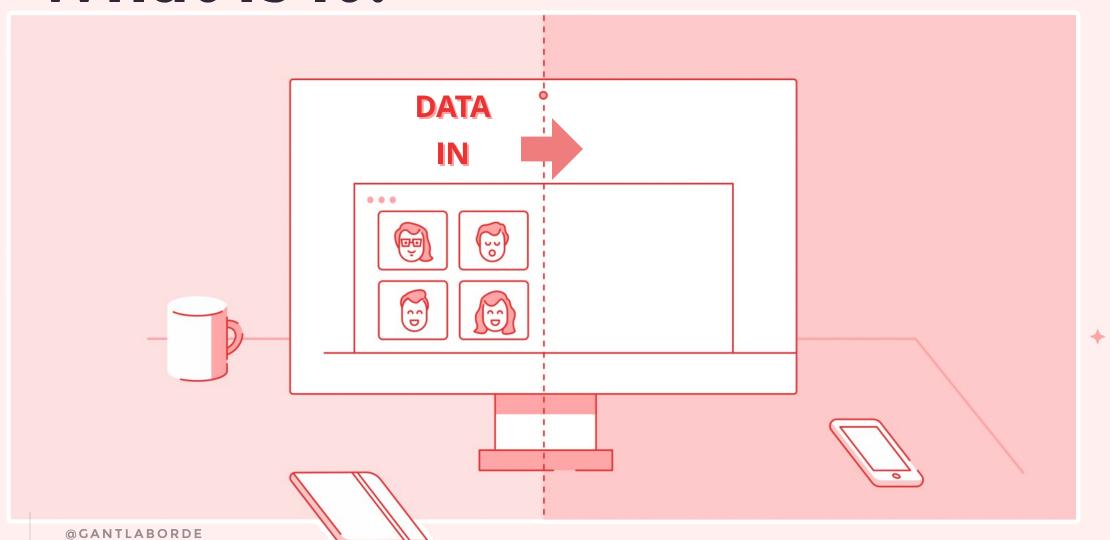






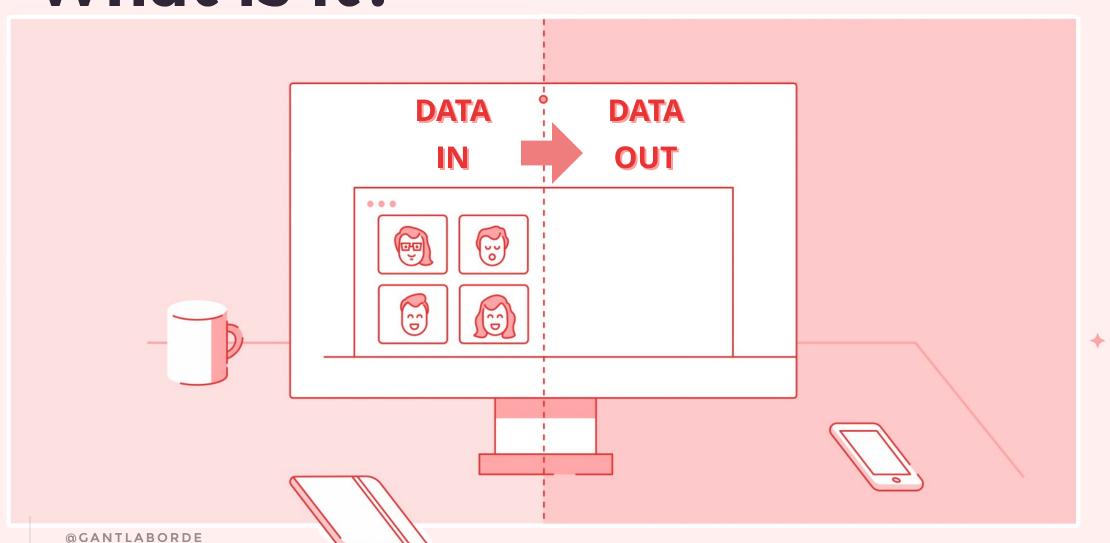






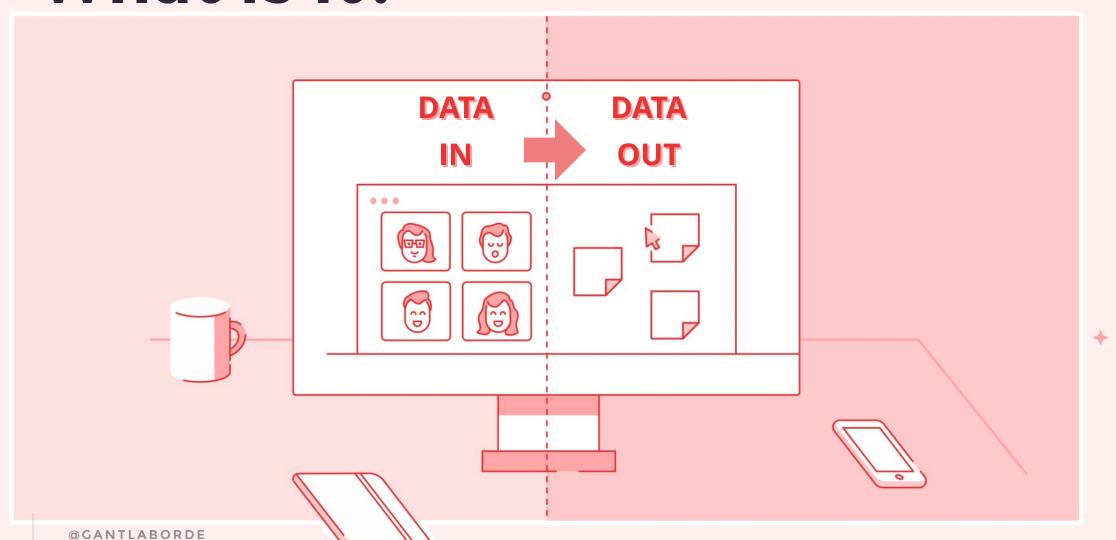
What is it?

OO



What is it?

OO



From Where?

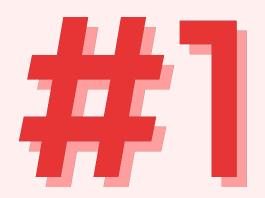


From Where?





From Where?



Download Existing* Models



From Where?



Train a Model



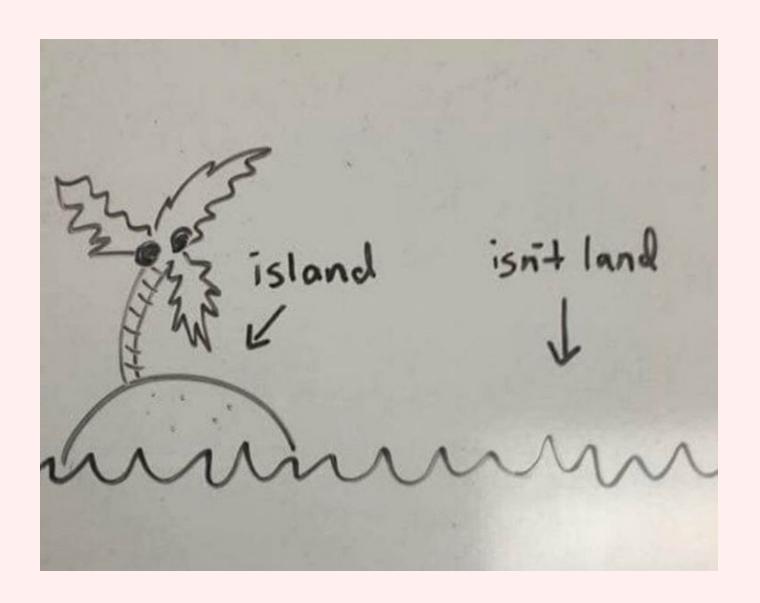
From Where?



Modify an Existing*
Model



Status



Growth

Machine Learning & JavaScript is Awesome!





MACHINE LEARNING

Growth

Machine Learning & JavaScript is Awesome!



JavaScript Options, Today



JavaScript Options, Today

Tensorflow (Lite/JS)



JavaScript Options, Today

- Tensorflow (Lite/JS)
- BrainJS (aka Brain)



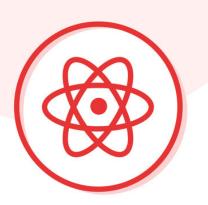


JavaScript Options, Today

- Tensorflow (Lite/JS)
- BrainJS (aka Brain)
- Core ML

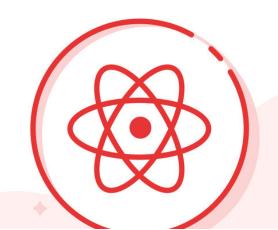






Though JavaScript goes everywhere

ML Libraries can't always follow







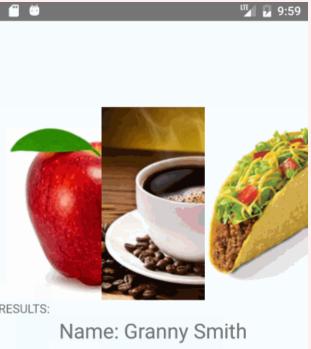
React Native Brain JS

React Native Vision
on CoreML

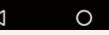
+ +

*

+



Confidence: 0.5798682570457458 Inference: 152ms



GantMan/RN_TF_Lite

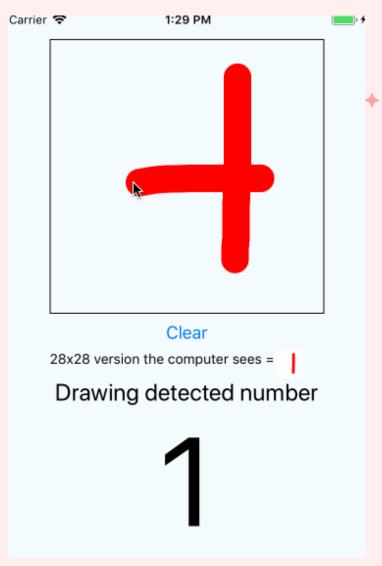
React Native Brain JS

React Native Vision on CoreML



GantMan/RN_TF_Lite

React Native Brain JS



GantMan/ReactNative_MNIST

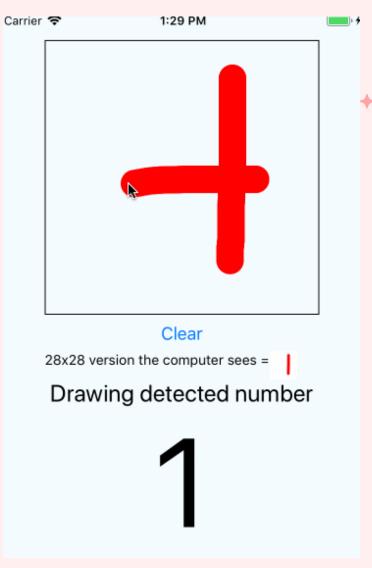
React Native Vision

on CoreML



GantMan/RN_TF_Lite

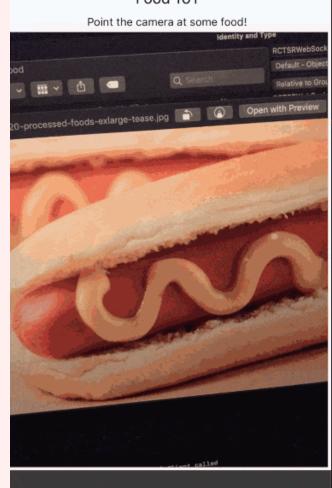
React Native Brain JS



GantMan/ReactNative_MNIST

React Native Vision on CoreML

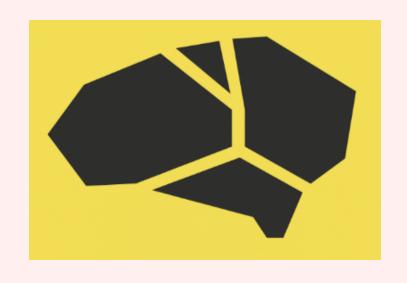
Food 101



hot_dog

GantMan/Food101

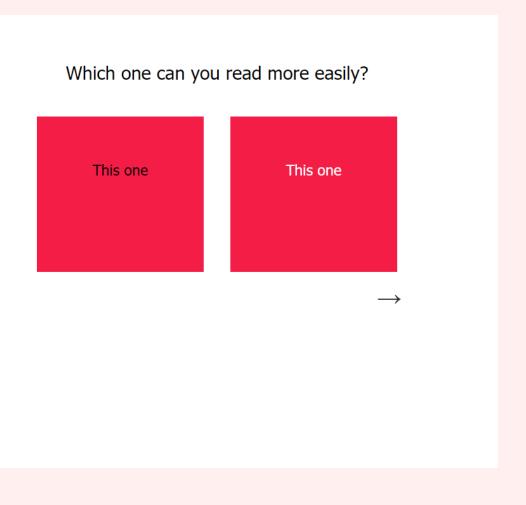
WEB?





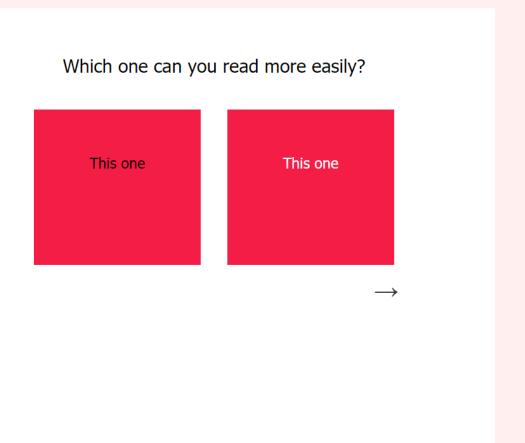


BrainJS - https://harthur.github.io/brain/

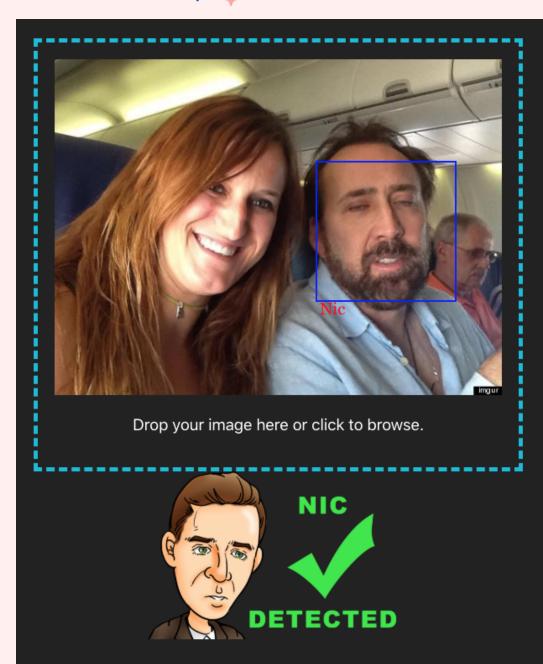




BrainJS - https://harthur.github.io/brain/



TFJS - https://nicornot.com/



Tensorflow (Lite/JS)

Learn More:

Free course on GitHub by Magnus Erik Hvass Pedersen https://github.com/Hvass-Labs/TensorFlow-Tutorials



GitHub Photo



React Native Brain JS

Learn More:

Free course by core-contributor https://scrimba.com/playlist/pVZJQfg



Robert Plummer



MACHINE LEARNING



How does one make a model?



Let's Make one Right Now



https://rps-tfjs.netlify.com/



MACHINE LEARNING

How

You don't need to come up with advanced algorithms anymore. You just have to teach a computer to come up with its own advanced algorithm.

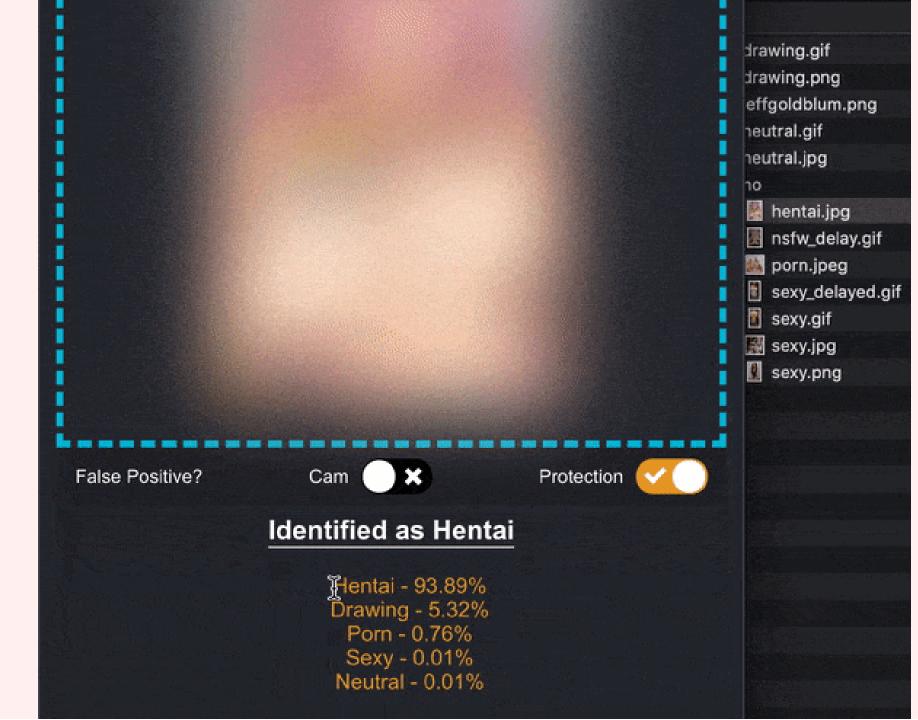
How





MACHINE LEARNING

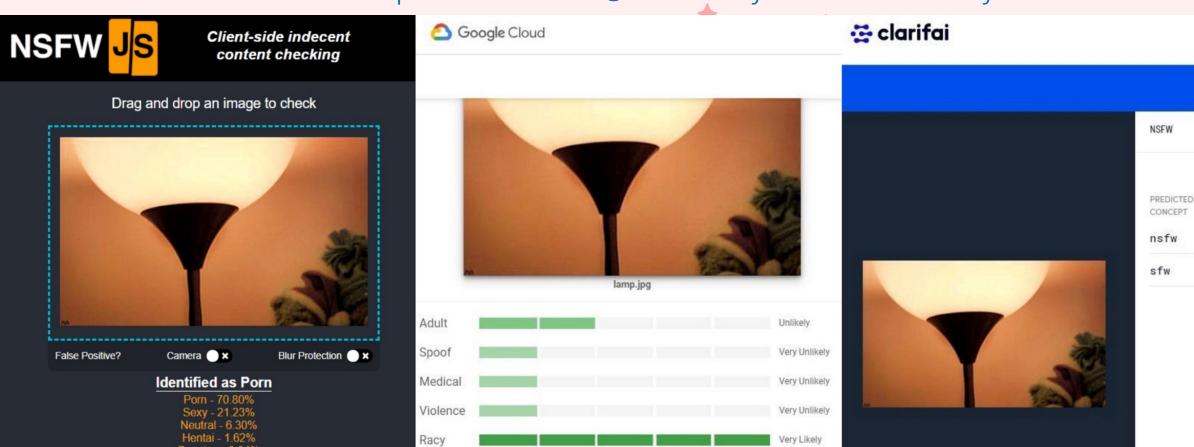
How





How

https://medium.com/@marekkcichy/does-ai-have-a-dirty-mind-too-6948430e4b2b



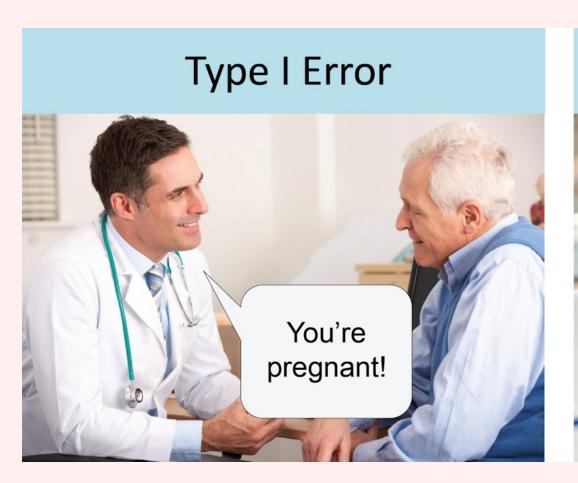


PROBABILITY

0.539

0.461

How





How

Al Isn't Perfect (yet)



How

Al Isn't Perfect (yet)

and that's OK!



GET ACTIVE

Think in ML



"Reimagining everything inspires science."



"Reimagining everything inspires science."

https://inspirobot.me/



Machine Learning

What does it do?

"Machine Learning does things a human can do; trained with a lot of time and a lot of examples."





Join a cool newsletter



Get Machine Learning Updates

Interested in machine learning? Join our mailing list to get occasional updates about machine learning,

Al, open source and other good stuff. We promise no spam, ever.

Enter your email address to subscribe.

| Email Address | |
|--------------------------|--|
| | |
| | |
| Vacilium tin an the funi | |



Twitter

@FunMachineLearn

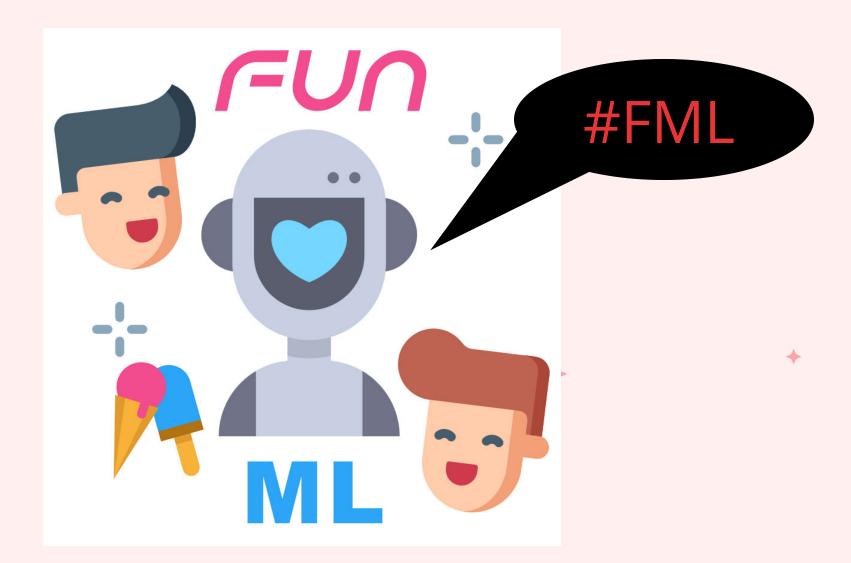




Review

Twitter

@FunMachineLearn



GET ACTIVE







"We can hope that others use this power only for good. I—for one, don't consider this a good bet. I'd rather play and be part of this revolution. And so can you."



Chris Heilman





