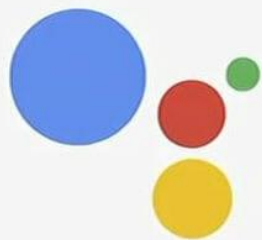# OUR MISSION

YOU CAN LITERALLY DO ANYTHING WITH SOFTWARE

"Mm-hmm."

REAL CHATBOTS

Diagnosing Cancer with AI

Neural networks are mathematical models of the biological neuron. They have the ability to appoximate functional mappings from sample data (to put them mildy).

Ruby is an object oriented, functionally inspired, beautiful programming language. I used it to build the models because it's so simple to read, not because it's a practical choice for production.

Step 1: Data data data

Step 2: Training

The training set is used along with a training algorithm in order to correct the neural networks classification during training. By doing so, teaching it to classify the mass as either malignant or benign. I'm training the neural network with a particle swarm optimizer, a clever global search algorithm.

Let us train the network now...

Train

Step 3: Evaluation

Once the training is complete it will show the trained networks average classification accuracy. This may vary greatly because I have not tweaked the algorithms parameters (train again if the accuracy is not sufficient).

Let us test the trained network by giving it 2 data patterns from the generalization set (the trained network never encountered these) and see if it classifies them as expected.

We expect the following unseen data to classify as Malignant.

17.99,10.38,122.8,1001,0.1184,0.2776,0.3001,0.1471,0.2419,0.07871,1.095,0.9053,8.589,153.4,0.006399,0.04904,0.05373,0.0
1587,0.03003,0.006193,25.38,17.33,184.6,2019,0.1622,0.6656,0.7119,0.2654,0.4601,0.1189

Classify example

We expect the following unseen data to classify as Benign.

7.76,24.54,47.92,181,0.05263,0.04362,0,0,0.1587,0.05884,0.3857,1.428,2.548,19.15,0.007189,0.00466,0,0,0.02676,0.002783,9.
456,30.37,59.16,268.6,0.08996,0.06444,0,0,0.2871,0.07039

MACHINE LEARNING

Charlie Gerard 🏳️‍🌈
@devdevcharlie

Charlie Gerard 🏳️‍🌈

@devdevcharlie 💩 Keybase Chat

Software Developer / Creative Technologist @ThoughtWorks. Former creative developer @NYT in London. Passionate about #creativecoding & tinkering with hardware.

📍 Sydney (Prev. London & Paris)
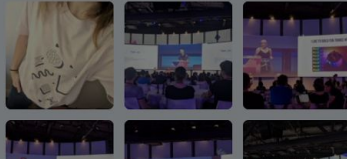🔗 charliegerard.github.io
📅 Joined December 2009

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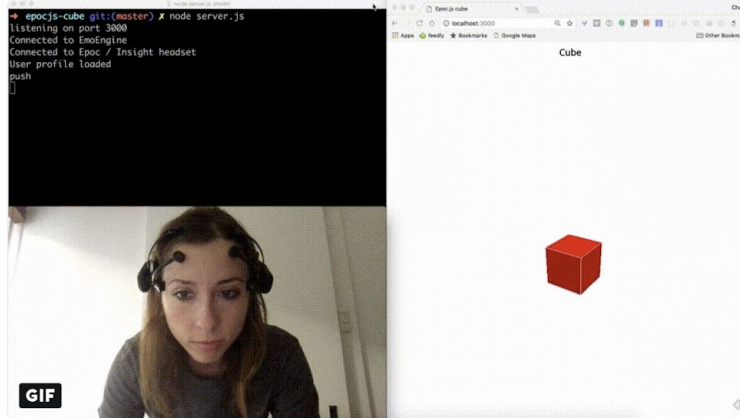
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Charlie Gerard 🏳️‍🌈
@devdevcharlie

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Forgot to share I FINALLY got the mental commands from the @emotiv to work in JavaScript! 🎉😃 Here's a quick example of me pushing a #threejs cube just by thinking about it! github.com/charliegerard/…
#javascript #Nodejs #iot #EEG

GIF

11:31 PM - 29 Jan 2018

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