Introduction to Machine Learning



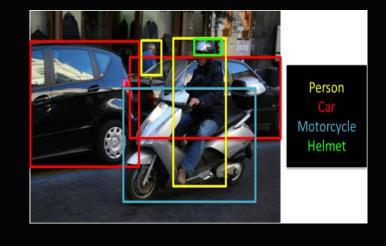
Artificial Intelligence connected

- > Hello
- > How can I help you?

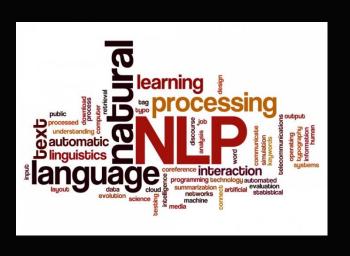
Mchamad Al Mdfaa

Machine Learning?









Search Engines

Image Recognition

Spam Filter Natural
Language
Processing



MACHINE LEARNING IS A METHOD OF TEACHING COMPUTERS TO MAKE PREDICTIONS BASED ON SOME DATA.





You Tuber



Introduction to Machine Learning





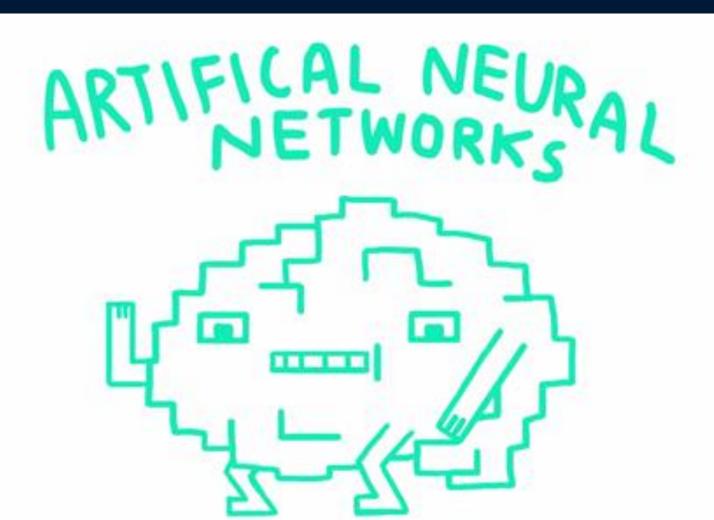
Mohamad Al Mdfaa

Outlines

- Linear Regression
- Logistic Regression
- Artificial Neural Networks

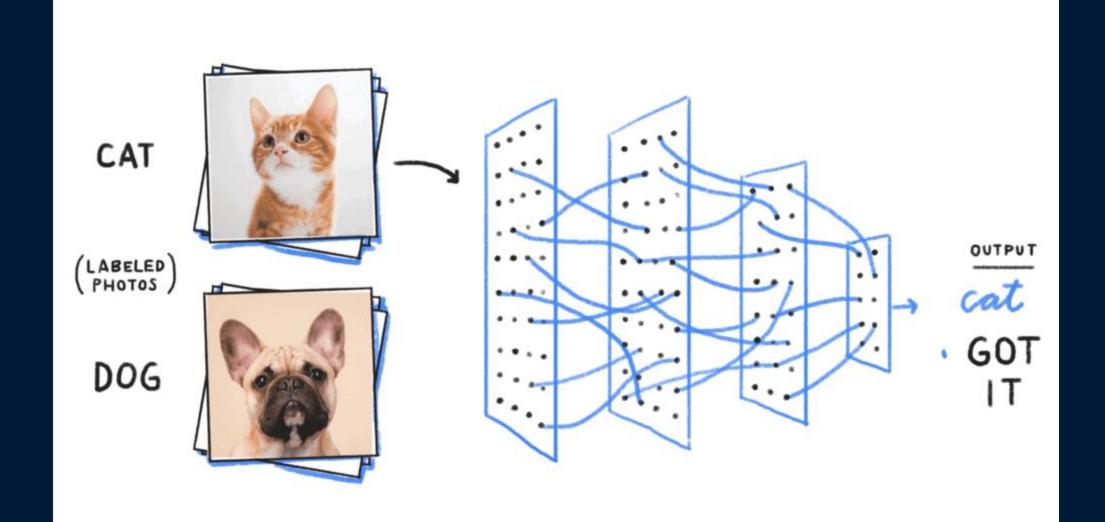
Ou

- Lin
- Log
- Art



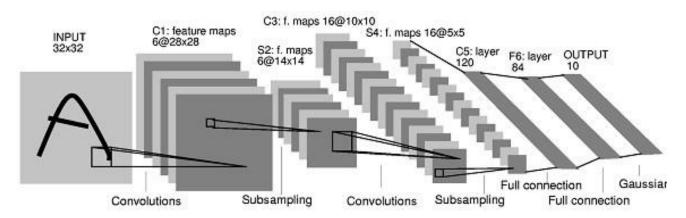
Neural Networks practitioner





1998

LeCun et al.



of transistors

106

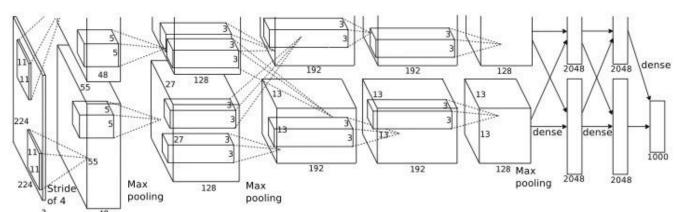
pentium |

of pixels used in training

10⁷ **NIST**

2012

Krizhevsky et al.



of transistors

GPUs

of pixels used in training





1014 IMAGENET

Outlines

- Linear Regression
- Logistic Regression
- Artificial Neural Networks
- Support Vector Machine
- Kernels
- Clustering
- Dimensionality Reduction
- Recommendation Systems

Machine Learning



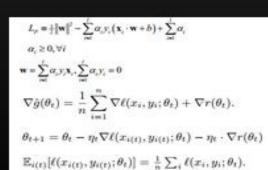
what society thinks I do

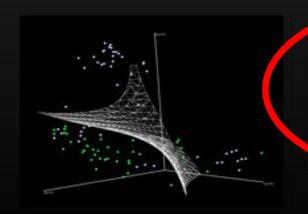


what my friends think I do



what my parents think I do





>>> from sklearn import svm

what other programmers think I do what I think I do

what I really do

"You can't just copy- Paste pseudocode into a program and expect it to work"





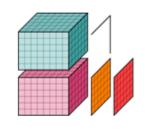


ANACONDA®









xarray







learn scikit-image scikit-image image processing in python











