**DEV-ES.ORG** 

# MACHINE LEARNIG GETTING STARTED

Juliano Petronetto



# ABOUT ME

JULIANO PETRONETTO SOFTWARE DEVELOPER

github.com/petronetto
petronetto.com.br
juliano@petronetto.com.br

# YOU WILL LEARN

- Why Machine Learning
- What you need know
- How start
- Basic tools
- Some code examples



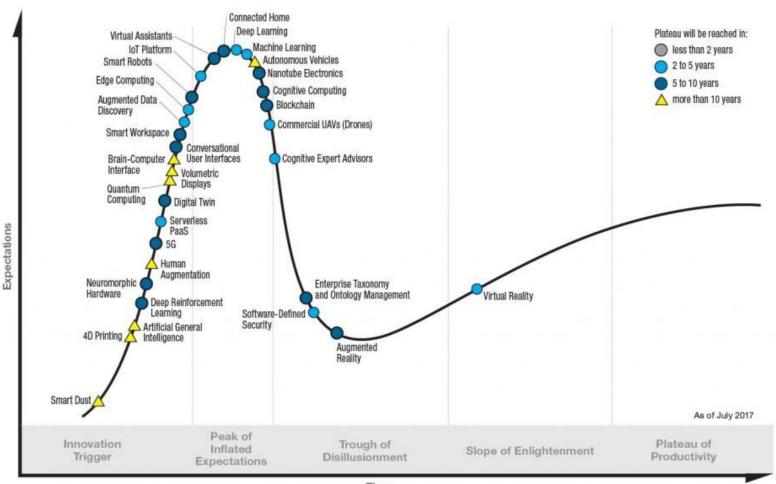
# WHY MACHINE LEARNING?

Artificial Intelligence is the New Electricity

- Andrew Ng



#### Gartner Hype Cycle for Emerging Technologies, 2017



Time

#### gartner.com/SmarterWithGartner

Source: Gartner (July 2017)
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### The biggest companies in the world do not invest billions in hypes and fads.

The investment in machine learning is a natural evolution in technology. The features being demanded in today's software are not CRUD operations and simple visualizations. They are features that resemble 'reasoning' and automated decision making such that end users are free to do what humans are naturally good at; being creative and working on strategy.

Sean McClure



# REQUIRED SKILLS

**1** Basic math

Programming Fundamentals

Good english reading



#### **OPEN SOURCE TOOLS**



















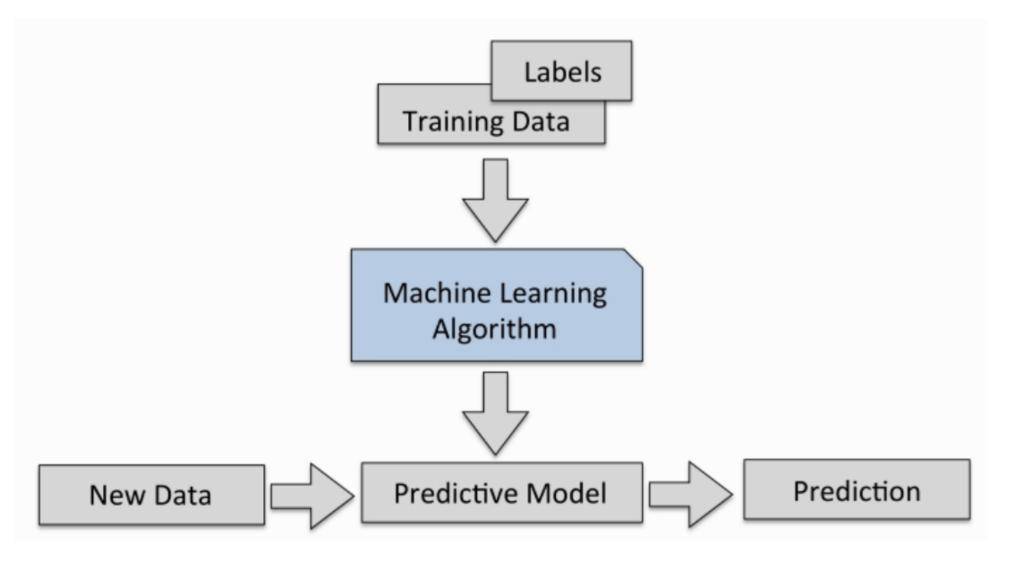


#### TYPES FO MACHINE LEARNING

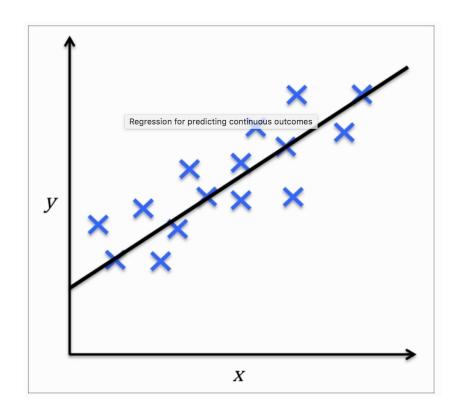
Unsupervised Learning Supervised Learning

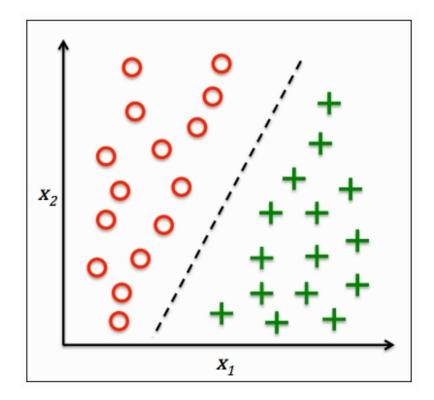
Reinforcement Learning

#### **TIPICAL PIPELINE**

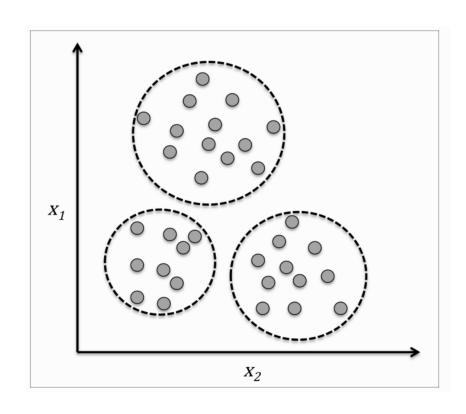


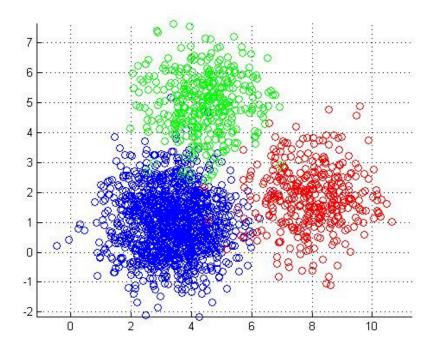
#### **REGRESSION**

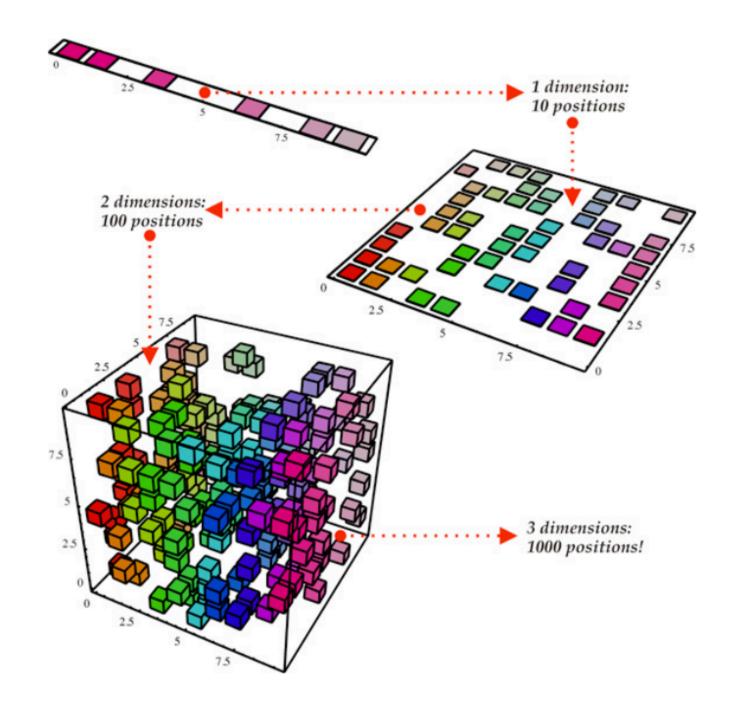




#### **CLUSTERING**

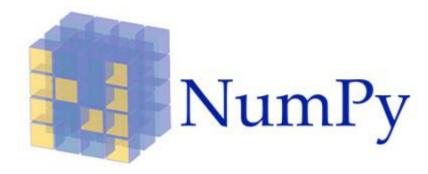














## TOOLS

Numpy

**Pandas** 

Scikit-Learn

Matplotlib



Talk is cheap. Show me the code.

— Linus Torvalds —

AZ QUOTES

## RESOURCES

https://udacity.com/courses/ud120

https://udacity.com/courses/ud262

https://udacity.com/courses/ud359

https://www.edx.org/course/machine-learning-columbiax-csmm-102x-1

https://www.udemy.com/machine-learning-e-data-science-com-python

https://github.com/petronetto/Dev-ES-Conf-2017

https://archive.ics.uci.edu/ml/index.php

https://www.kaggle.com/

