Machine Learning Intro

in 30 minutes

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CONTENTS



Machine Learning

Subfield of computer science that gives computers the ability to learn without being explicitly programmed.

Arthur Samuel, 1959

A computer program is said to learn from experience E with respect to some class of tasks T and performance measure P if its performance at tasks in T, as measured by P, improves with experience E.

Tom Mitchell, 1997















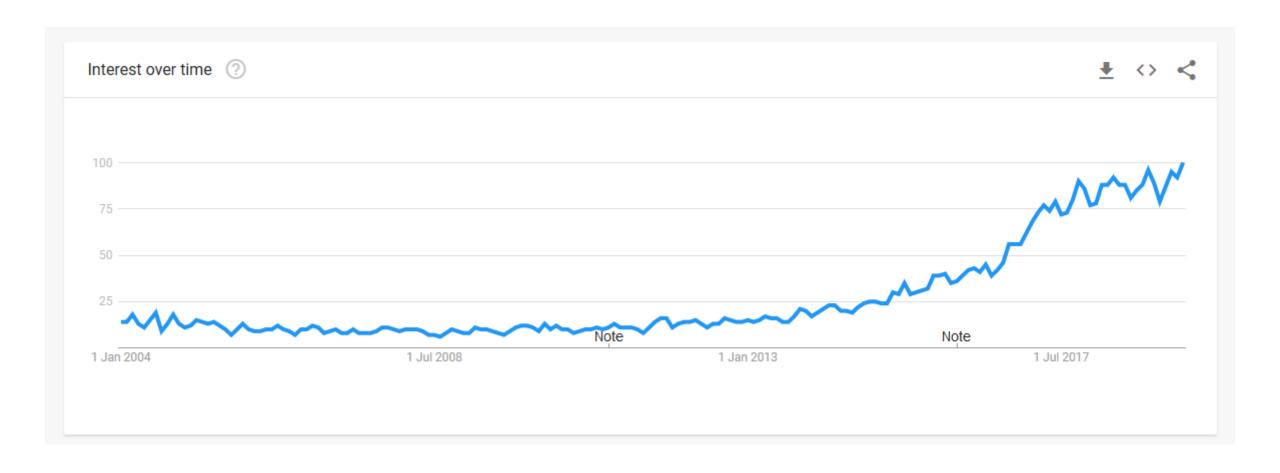






...soon everywhere

Google Trends: Machine Learning (2004 – Today)

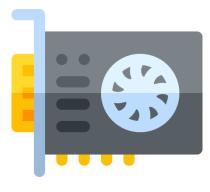


Why now?

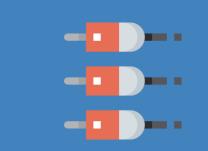


Data Growth

Computing Power



Main types of Machine Learning



Supervised
Learning
Input variables x,
output variable yPrediction



Unsupervised Learning Input variables x

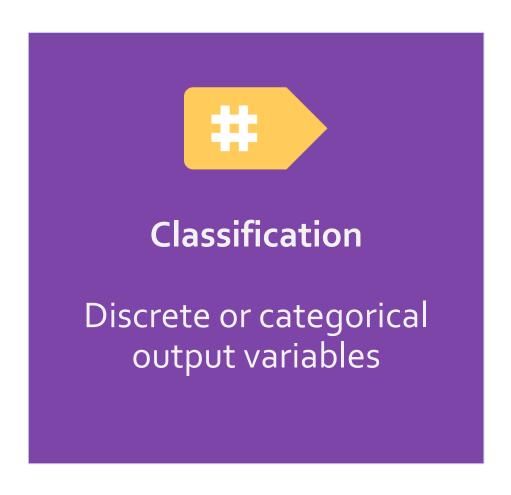
Learn more about the data

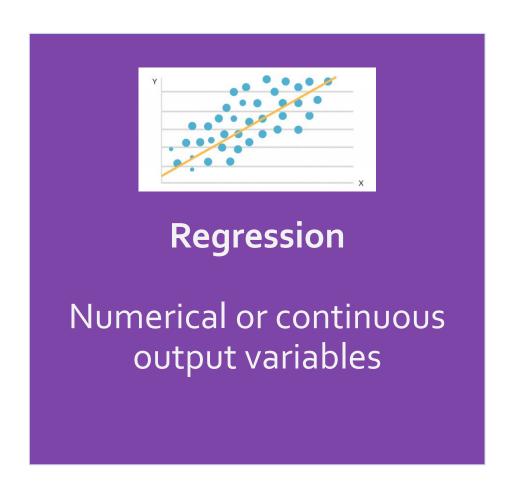


Learning
Agent acting in an environment so as to get a reward

Reinforcement

Supervised Learning





Our approach today



- An end to end example
- Simple and real
- Python Google Colab No Setup
- Regression Problem
- More than just using an algorithm

Visit ->

http://bit.ly/acmml

Questions?

Let's discuss!

Thank you!

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Scan me!

