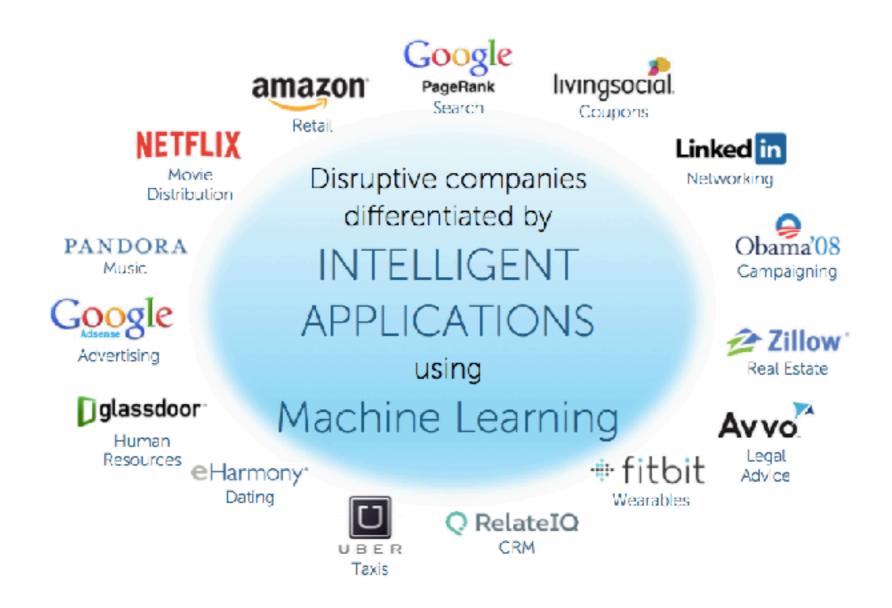


## Machine Learning

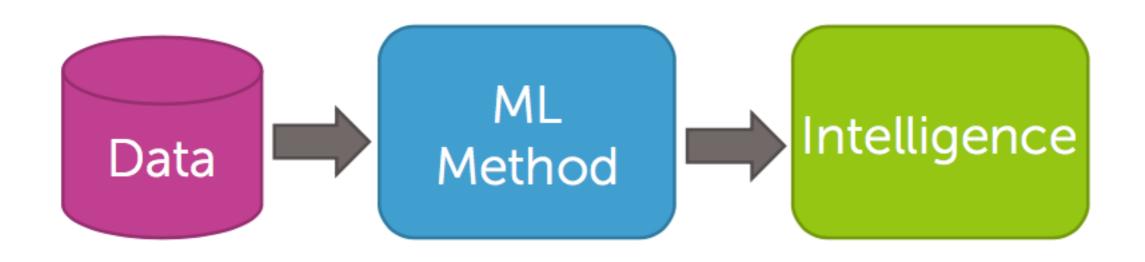
Ladle Patel

# Who is using Machine Sport Learning



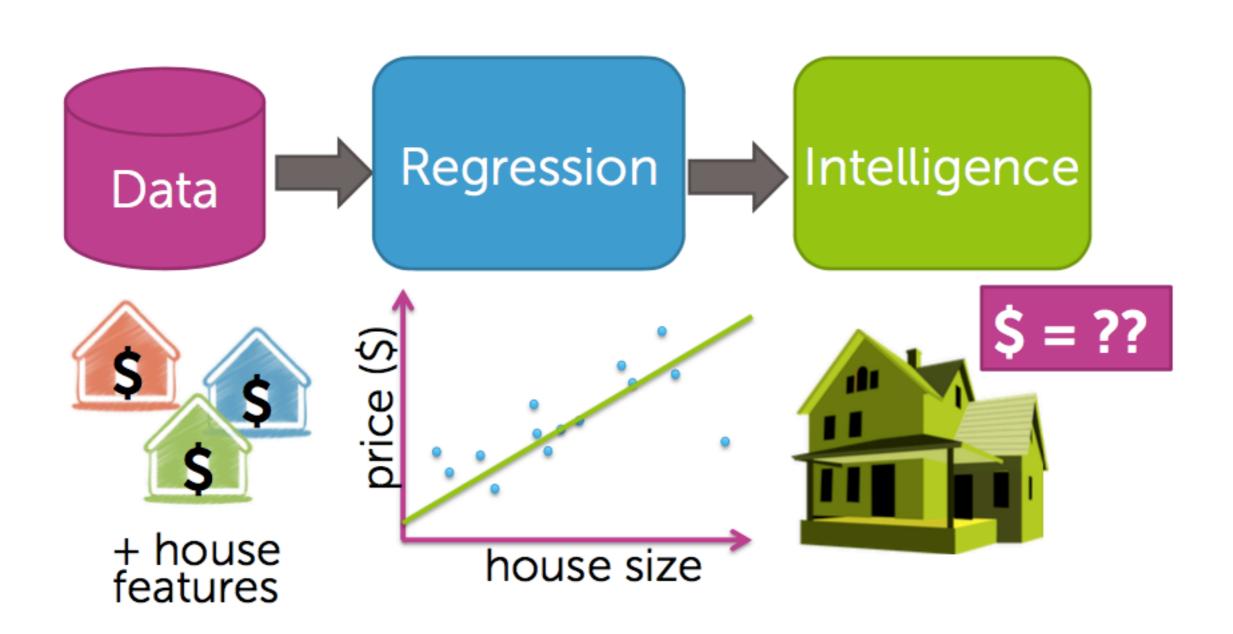
# Spache

## What is Machine learning





#### Predict House Price





# Document Classification

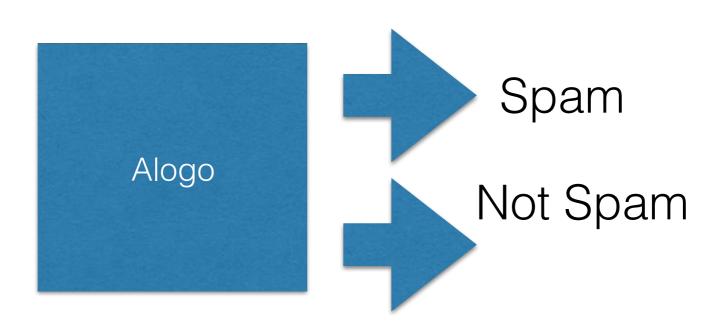


PERSONAL GROUPS BACK SHARES CONTACT YOUR AGENT TO CLASS YOUR REZE.

000GLE LOTTERY INTERNATIONAL INTERNATIONAL PRONOTION / PRIZE AWARD (WE ENCOURAGE GLOBALIZATION) FROM: THE LOTTERY COORDINATOR GOOGLE H. V. 44 9458 PT RESULTS FOR CATEGORY "A" DRAWG

Congratulations to you as we bring to your notice, the results of the First Calinform you shat your email address have emerged a winner of One William (1.4) riverey of Fee Million (2,040,000.01) Euro shorld among the 2 vinears in the email addresses of individuals and companies from Africa, America, Asia, A.

Your fund is now deposited with the paying clark. In your best interest to avo evend shirtly from public notice with the process of vanolening your cases i NOTE to file for your claims, please contact the claims department below on a



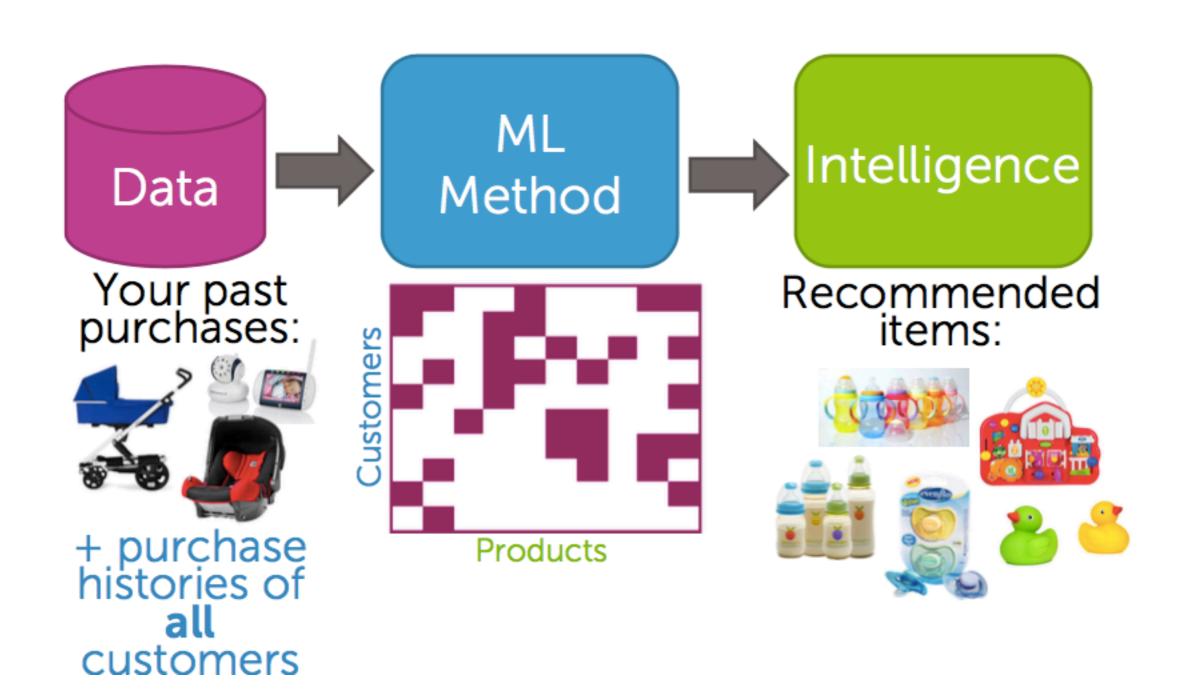


## Clustering



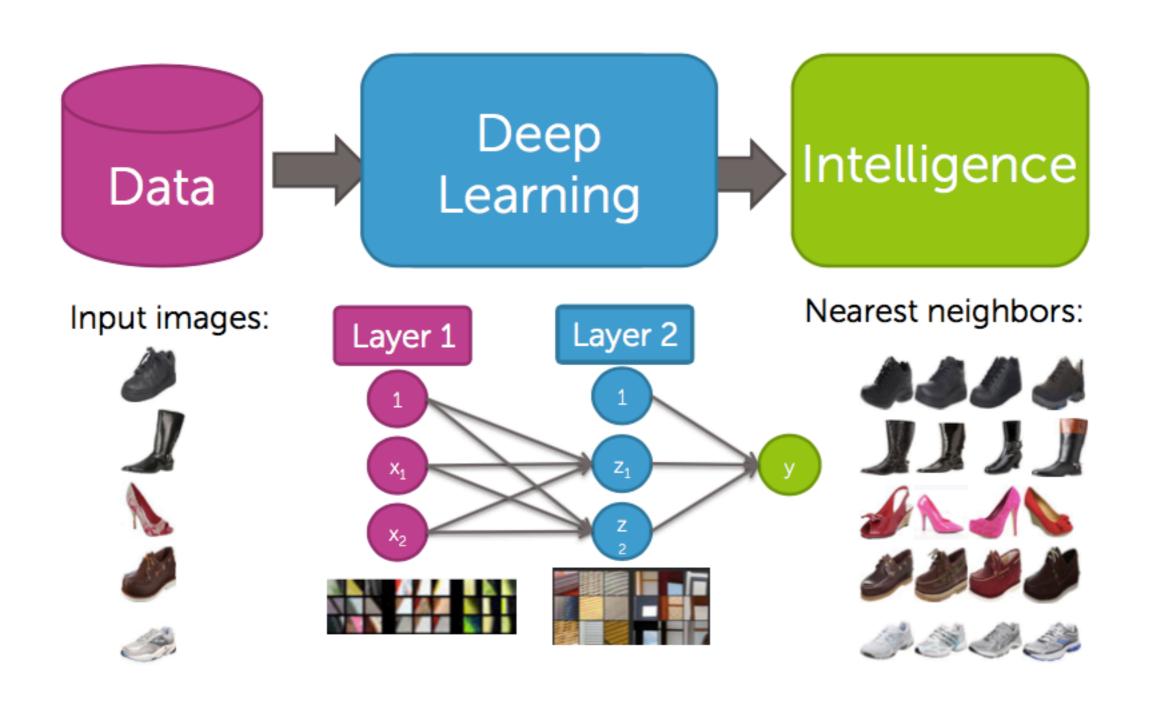


#### Recommendation





#### Image matching





#### Definition

• It is a field of artificial intelligence, which is a sub-field of computer science, in which we teach computers by example and ask computer to predict for new example automatically.



# Types of Machine Learning

#### 1. Supervised Learning.

Ex:Regression, Decision Tree, Random Forest, KNN, Logistic Regression

#### 2.Unsupervised Learning.

Ex:K-means.

#### 3.Others

Ex:Markov Decision Process



## Terminologies

- Observations: Items or entities used for learning or evaluation in the context of spam detection, emails.
- Features: Are attributes used to represent an observation. Ex:In housing prices prediction, size, area, floors etc.. Are
- Labels: Are values or categories assigned to observations, and again, in the context of spam detection, these can be an email being defined as spam or not spam.
- Training and test data: Observations that we use to train and evaluate a learning algorithm.



#### Tools and Problem

- Matlab.
- Octave.
- R.
- SAS.
- SPSS.
- Python.
- etc..
- Most of the traditional analytical tools runs on single machine.



Thank You.