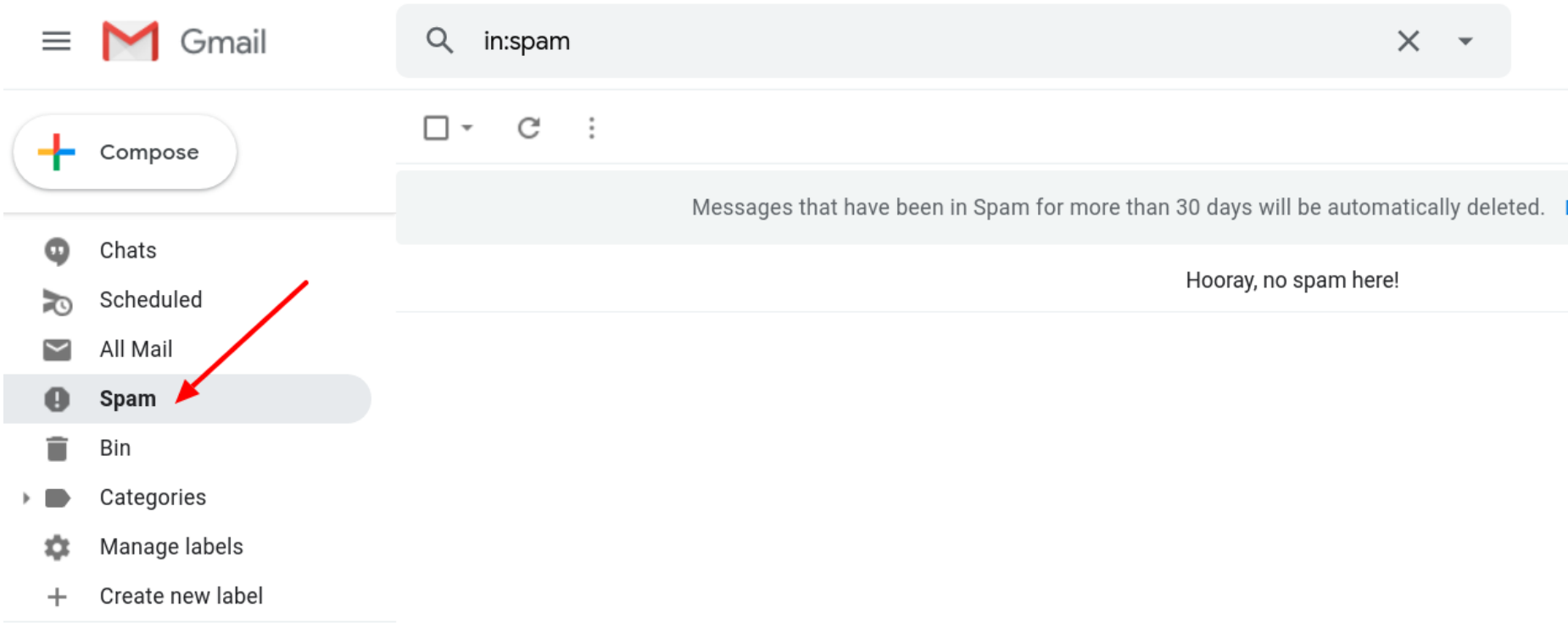
Introduction To Machine Learning

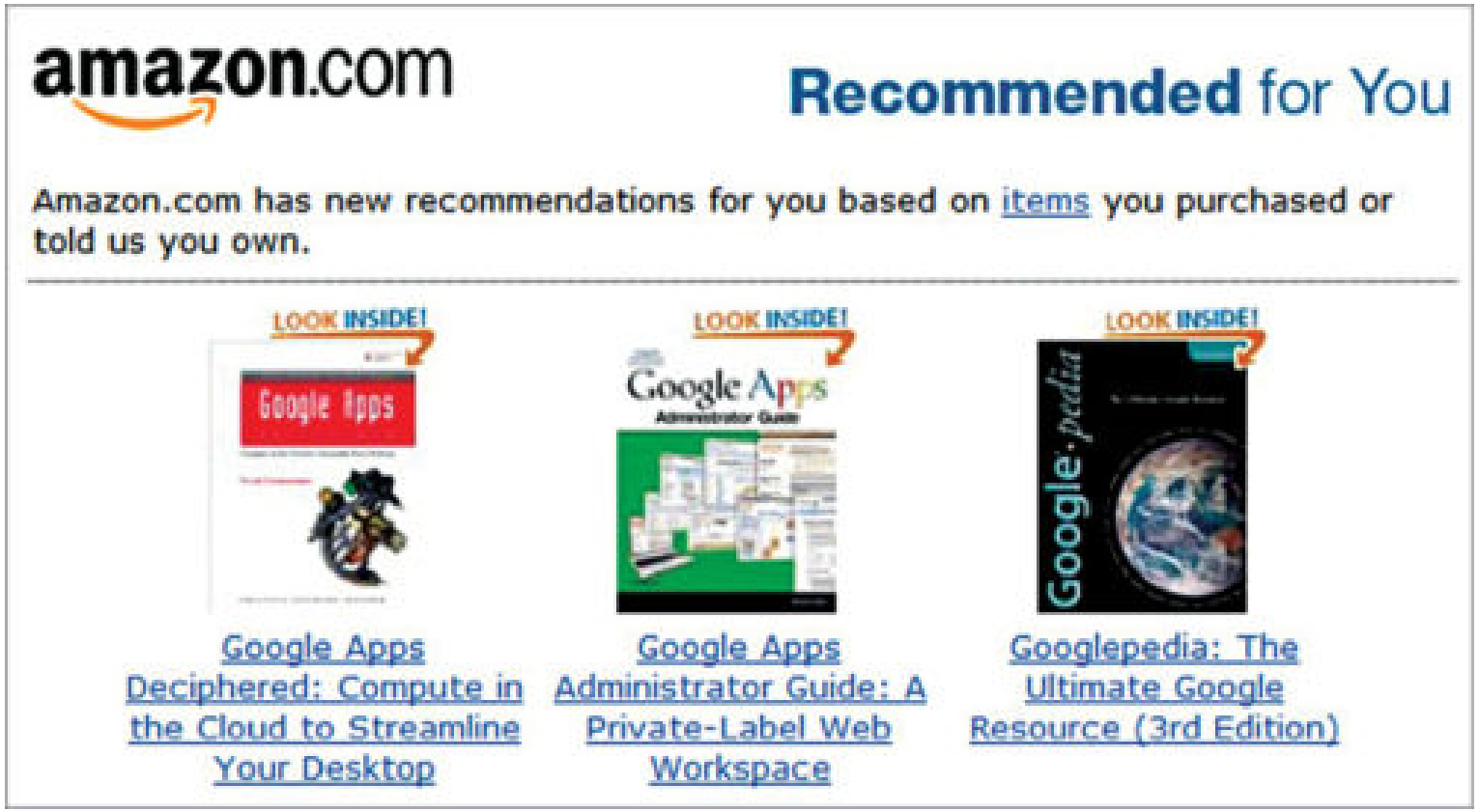
Deborah Dormah Kanubala

December 20, 2019

Spam/ Not Spam Emails

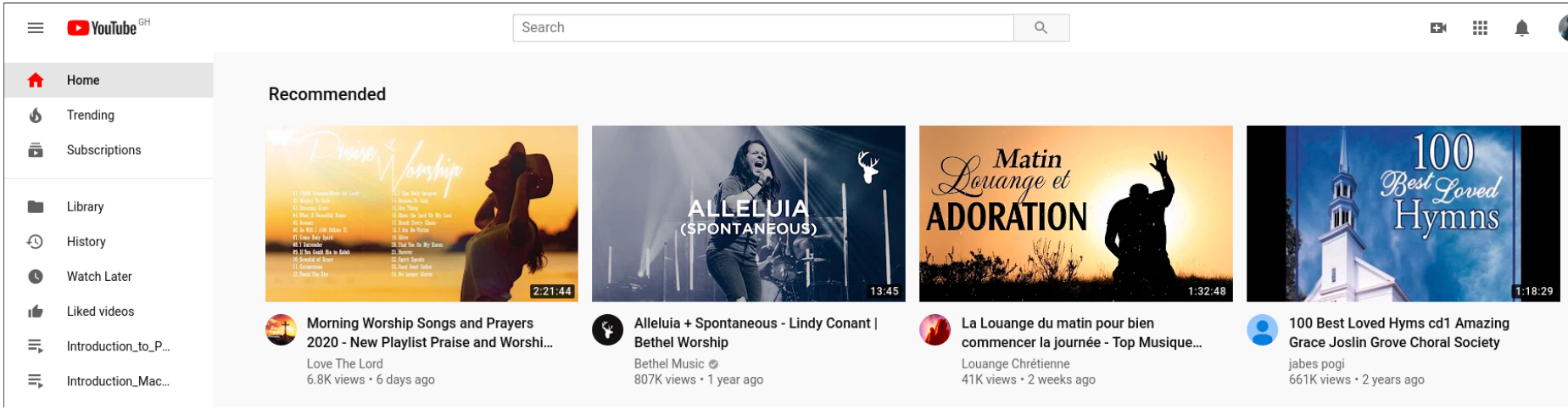


Recommendation system

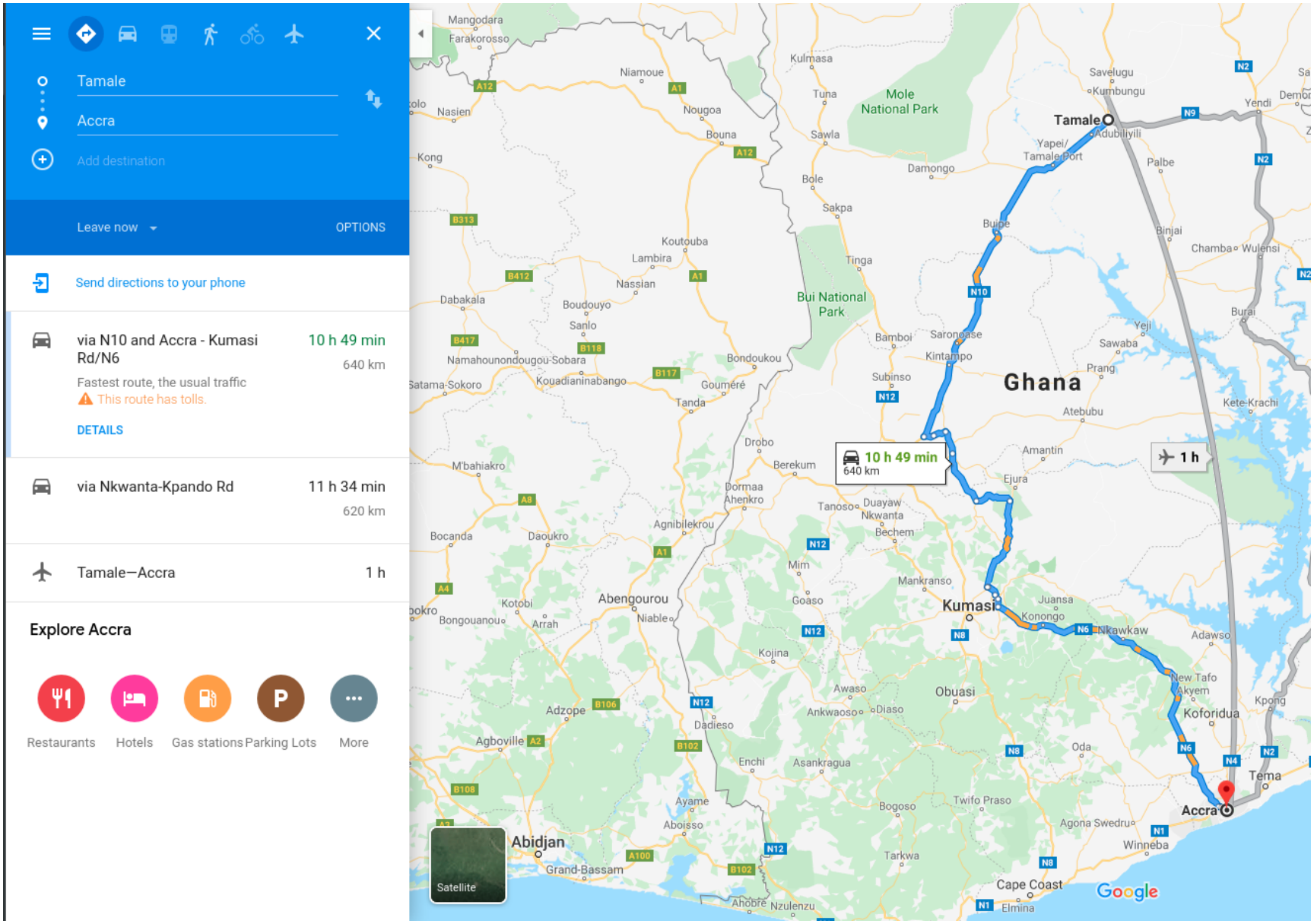


Source: https://electronicsforu.com/resources/cool-stuff-misc/e-commerce-recommendation-systems

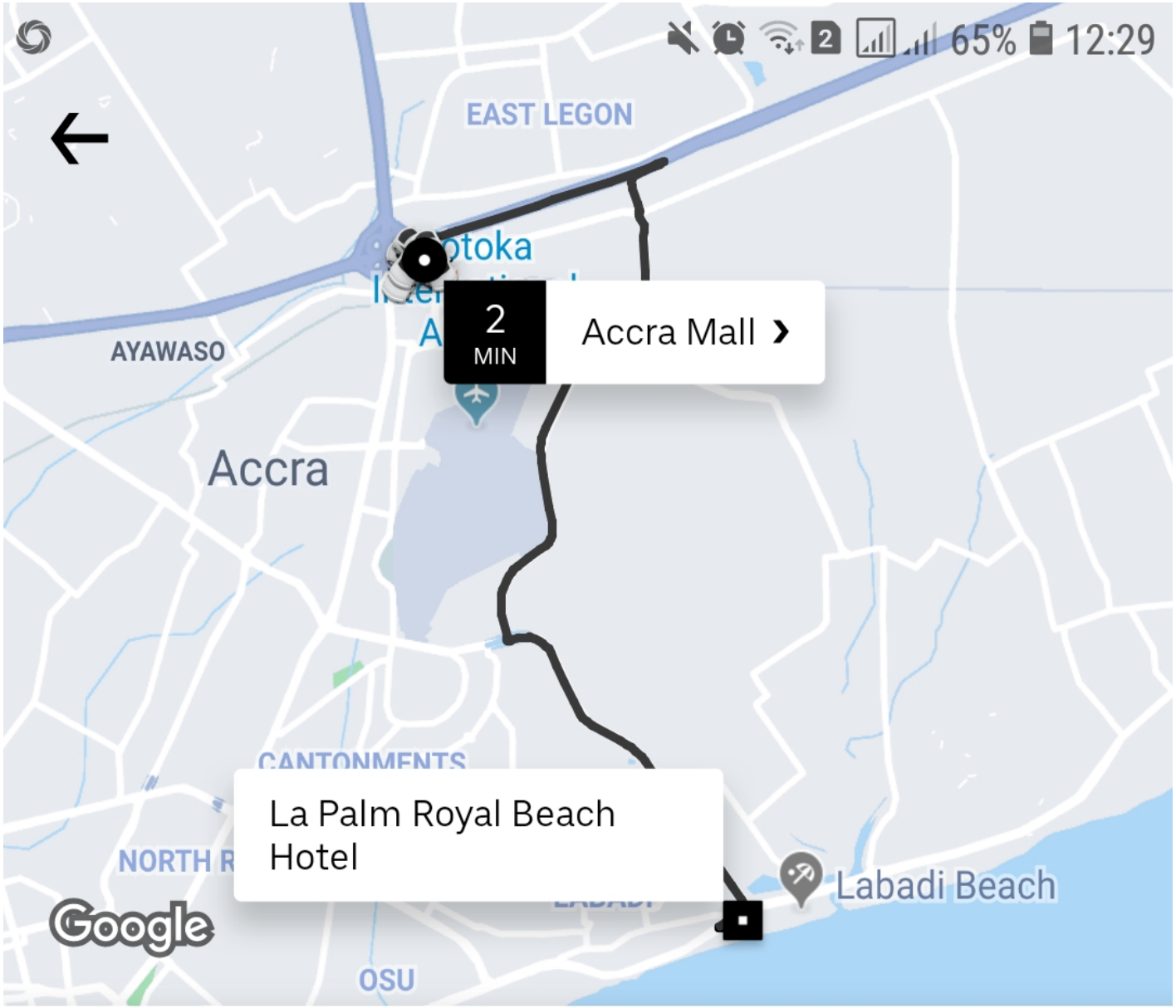
Youtube Recommendation



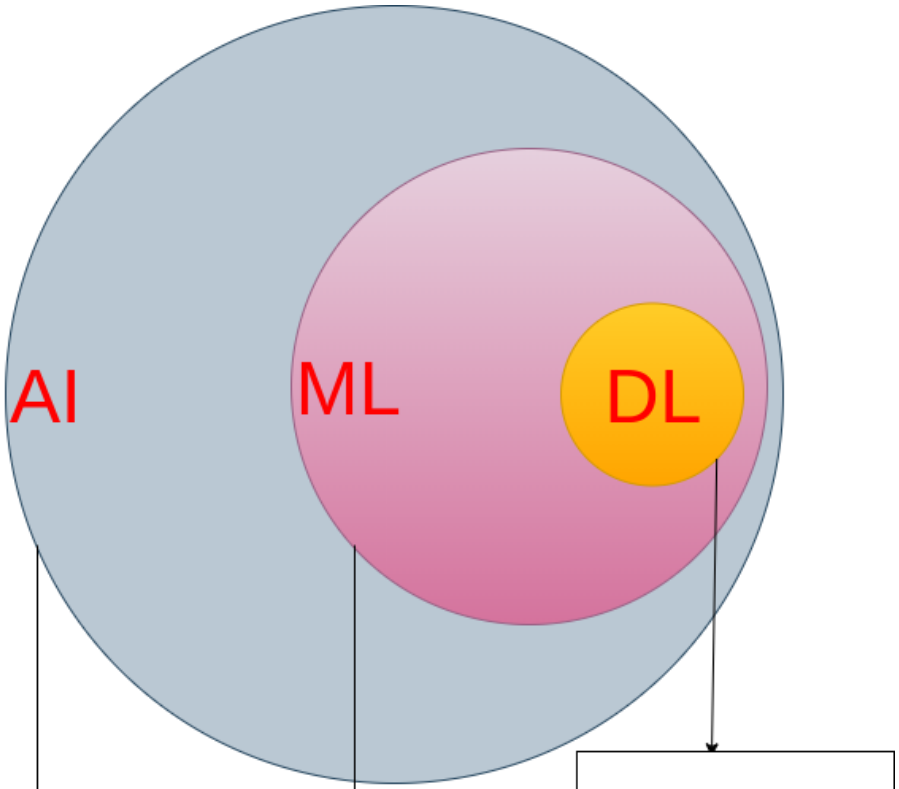
Google Maps


Tamale
Accra
Add destination
Leave now
OPTIONS
Send directions to your phone
via N10 and Accra - Kumasi Rd/N6
10 h 49 min
640 km
Fastest route, the usual traffic
This route has tolls.
DETAILS
via Nkwanta-Kpando Rd
11 h 34 min
620 km
Tamale—Accra
1 h
Explore Accra
Restaurants
Hotels
Gas stations
Parking Lots
More
Ghana
Tamale
Kumasi
Accra
Abidjan
Cape Coast
Mole National Park
Bui National Park
10 h 49 min
640 km
1 h
Satellite
Google

Uber


65% 12:29
EAST LEGON
AYAWASO
Accra
2
MIN
Accra Mall
La Palm Royal Beach
Hotel
Labadi Beach
Google
OSU

Machine, AI, Deep Learning



Artificial Intelligence

Programming machines to be able to mimic human intelligence

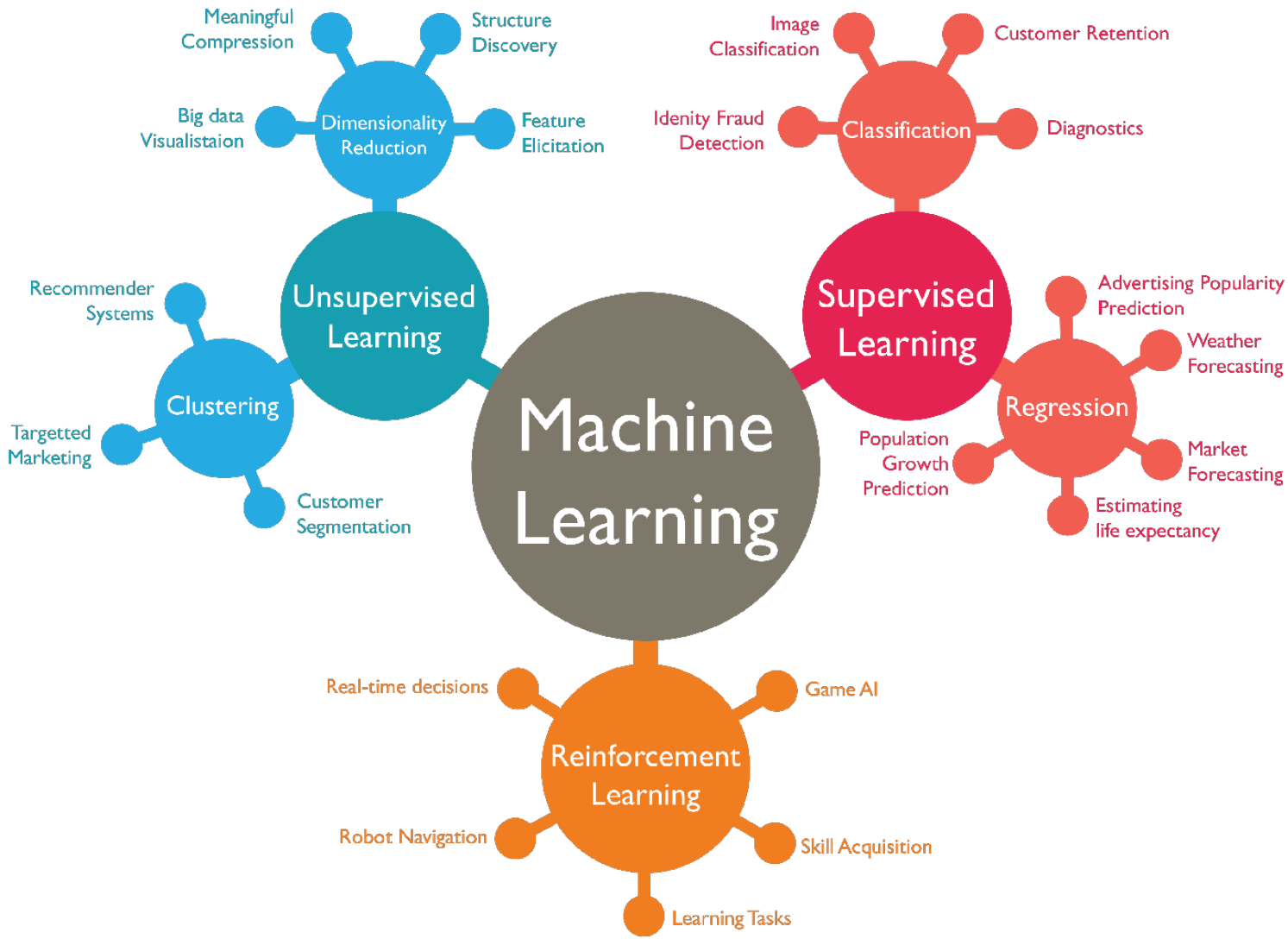
Machine Learning

Focus on making the machine learning from data such that it is able to make predictions from unseen data

Deep Learning

Sub class of machine learning

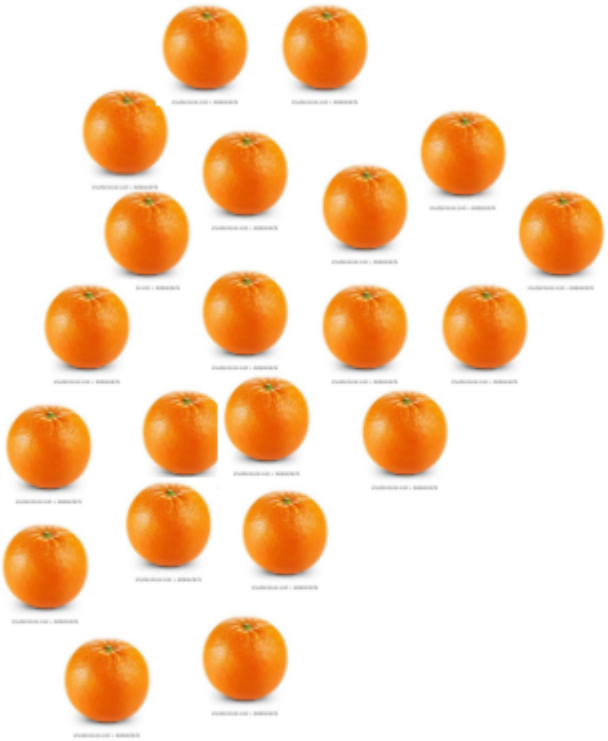
Overview of Machine Learning



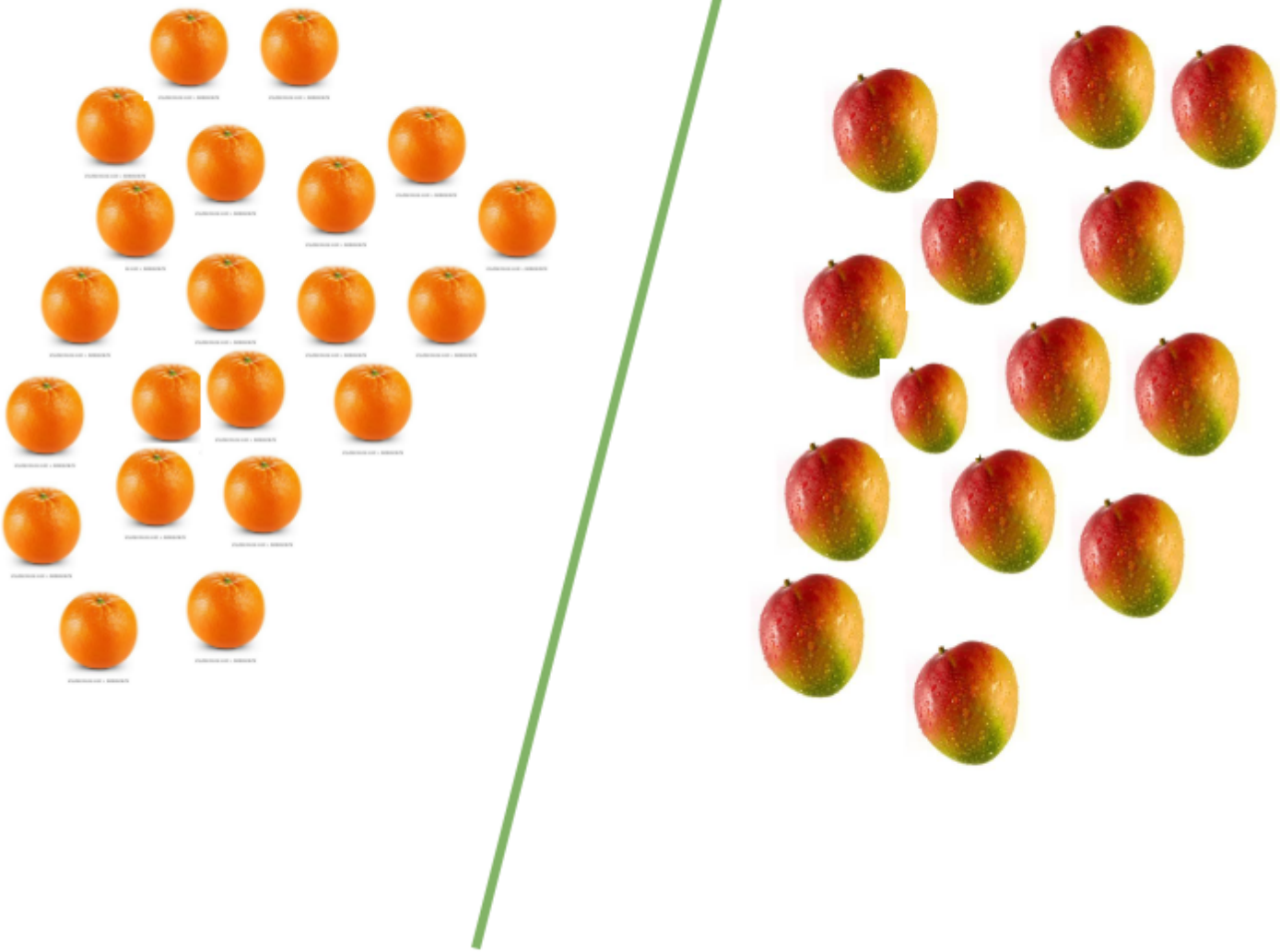
Source: https://www.linkedin.com/pulse/business-intelligence-its-relationship-big-data-geekstyle

Price of a house in Ghana			
Number of bedrooms	location	garage	price of house
4	Madina	yes	3000
2	Teshie	no	2500
6	East Legon	no	6000
4	Madina	yes	3000
1	Tema	no	1500
3	Dzorwulu	yes	3200
5	Santoe	yes	?
2	Teshie	no	?
7	East Legon	no	?

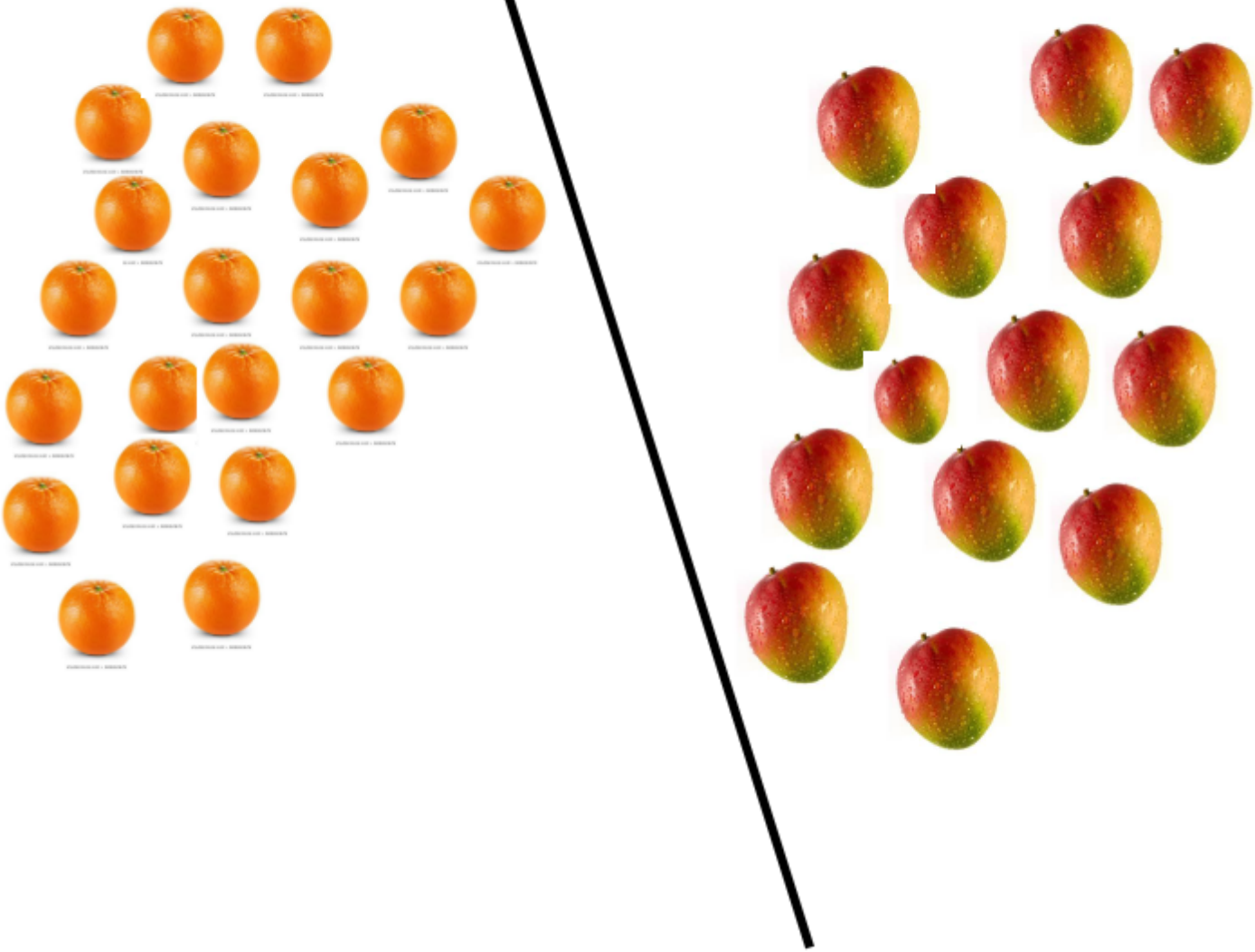
Supervised Learning



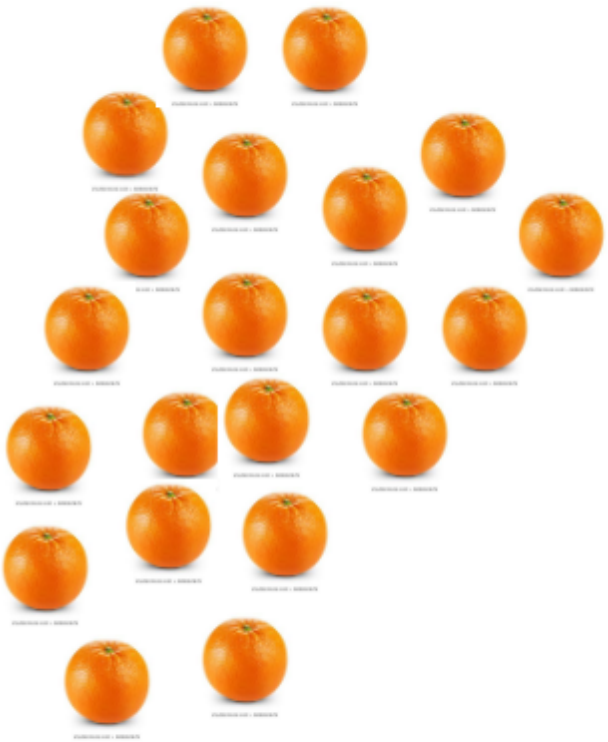
Separator One



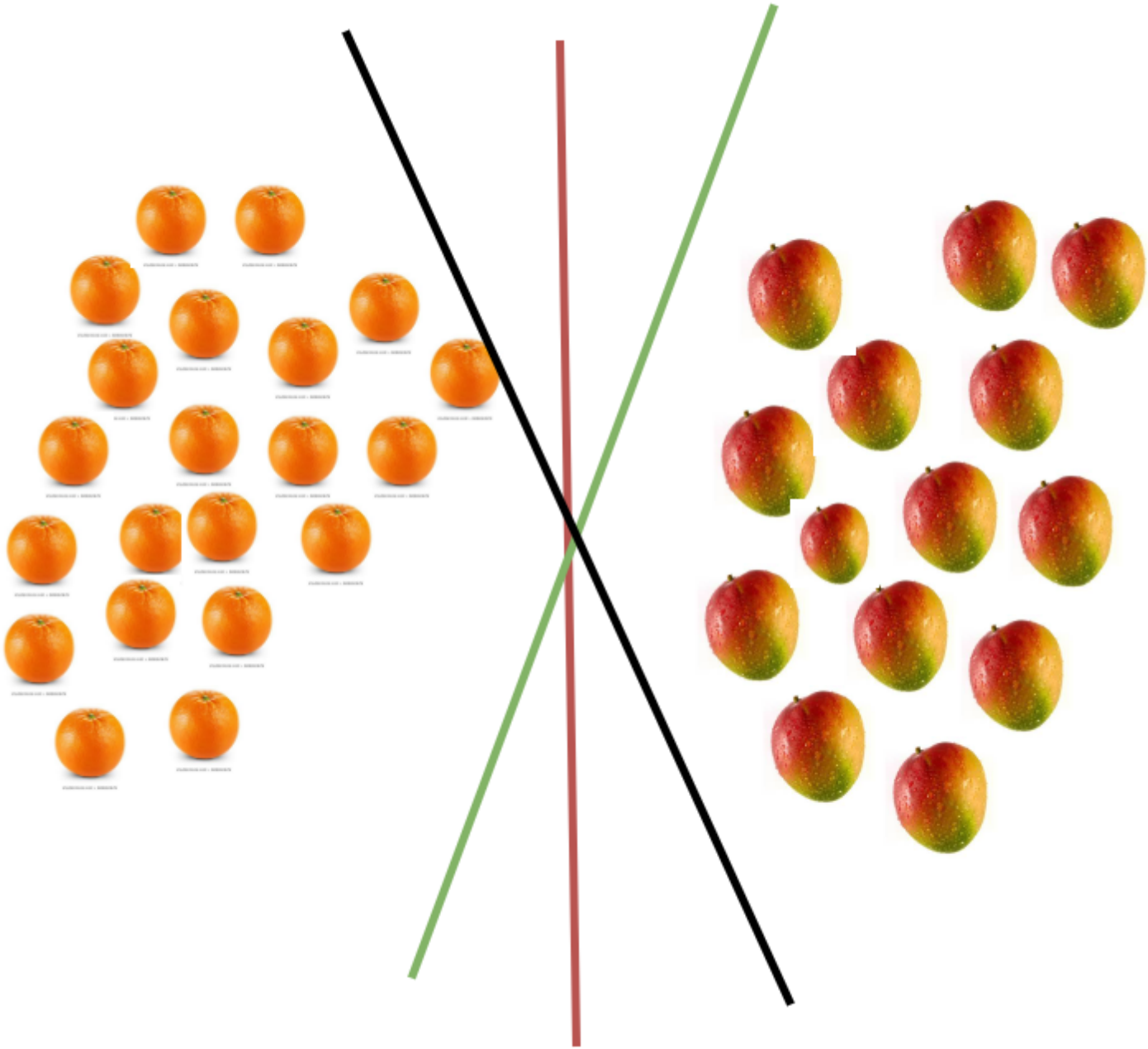
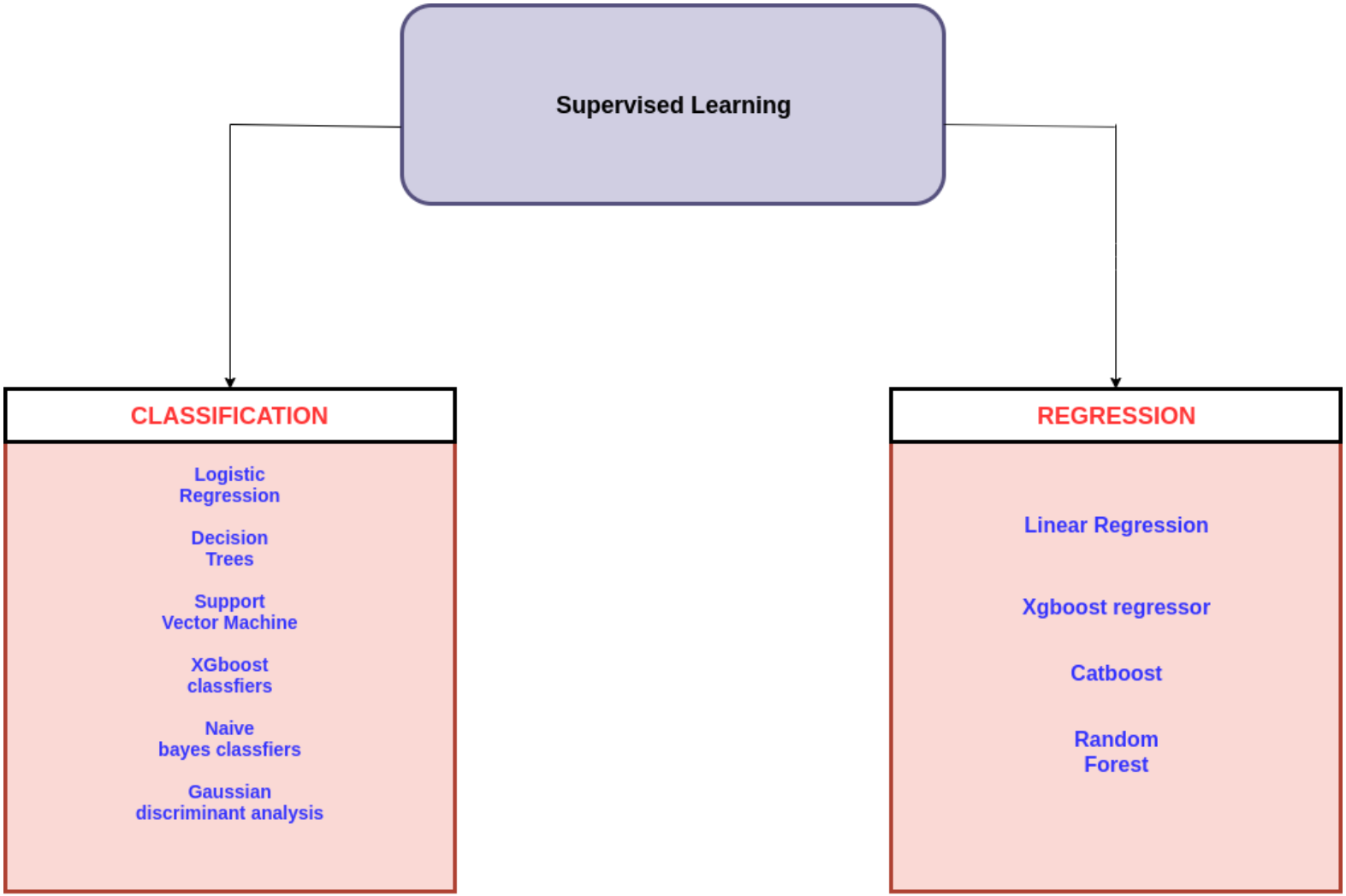
Separator Two



Separator Three



All Separators



Sub Classes Of Supervised Learning