[Vocab](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.ebutgeil3u68)

[Machine learning](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.iig5egeup0xv)

[Supervised](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.h94bf9rzkhqt)

[Regression](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.kq2ywcl94s6e)

[classifcation](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.xms6cezgtff6)

[Unsupervised](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.sx6hngddgzk8)

[Data driven /Clustering](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.n4bf7an22dy6)

[Reinforcement](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.b0srr129zge6)

[Notes from: https://www.youtube.com/watch?v=IpGxLWOIZy4](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.nst2abuhriwl)

[Linear regression](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.jrkuzrr5y3f4)

[Logistic regression - Sigmoid function - logistic curve](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.hwg5zzn45j36)

[Neural networks](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.5xylic1qllnz)

[Naive bayes](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.z5t33h7tjydf)

[Generative Learning](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.nwdrv1pzph1k)

[Decision trees](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.ng2581lcbae9)

[Support vector machines](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.of2e4p5thisw)

[gradient descent](https://docs.google.com/document/d/1ZAuS4Q-L1XKk3YgdSDSOgRDdjDQl0f_3HRRgsXCfAK4/edit#heading=h.nuxmf9sgzh3t)

Vocab

Types of Machine learning

Supervised

Support vector machines

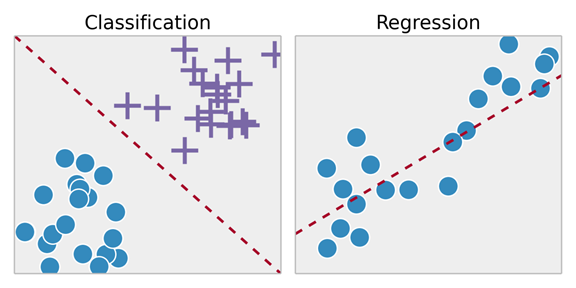
[Notes sir raj](https://github.com/llSourcell/Classifying_Data_Using_a_Support_Vector_Machine/blob/master/support_vector_machine_lesson.ipynb)

[Notes medium](https://medium.com/deep-math-machine-learning-ai/chapter-3-support-vector-machine-with-math-47d6193c82be)

Use kernel trick (make wanted outcome higher on Z axis)

Regression (all real numbers)

Classification (groups)



Unsupervised

Data driven /Clustering

Grouping shit together

[5 algorithms](https://towardsdatascience.com/the-5-clustering-algorithms-data-scientists-need-to-know-a36d136ef68)

Reinforcement

React to enviroment

[Notes from: https://www.youtube.com/watch?v=IpGxLWOIZy4](https://www.youtube.com/watch?v=IpGxLWOIZy4)

Linear regression

Basically a best fit line not bound to (0..1)

Logistic regression - Sigmoid function - logistic curve

1/(1+e^-x)

Curver used to fit data into (0..1)

Neural networks

Layered lines of nodes to give a output

[Naive bayes](https://www.analyticsvidhya.com/blog/2017/09/naive-bayes-explained/)

It is a classification technique based on [Bayes’ Theorem](https://en.wikipedia.org/wiki/Bayes%27_theorem) with an assumption of independence among predictors. In simple terms, a Naive Bayes classifier assumes that the presence of a particular feature in a class is unrelated to the presence of any other feature. For example, a fruit may be considered to be an apple if it is red, round, and about 3 inches in diameter. Even if these features depend on each other or upon the existence of the other features, all of these properties independently contribute to the probability that this fruit is an apple and that is why it is known as ‘Naive’.

Generative Learning

Compare input to established models

Decision trees

Read the name -\_-

gradient descent

Minimum finding algorithm