KNN

Regression (Target continuous)

Linear Regression

Classification (Target / Classes) Classify

~~Linear Regr~~

Logistic Regression

Statistical procedure rely → Assumption → shape of dist

↳ pop. parameter / mean / ...

↳ makes an assumption with regard to the function (f)

↓

Model LR

↳ assumption

good ← will be to make the estimation suitable.

→ If assumptions not satisfied ((10,000))

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Non-parametric Methods

↳ do not make any assumption → very large no. of observations

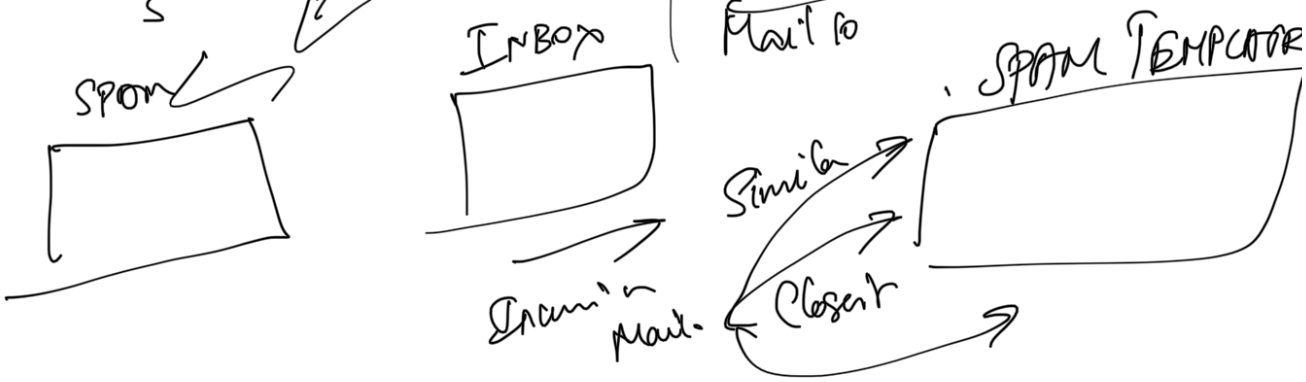
estimate 'f'

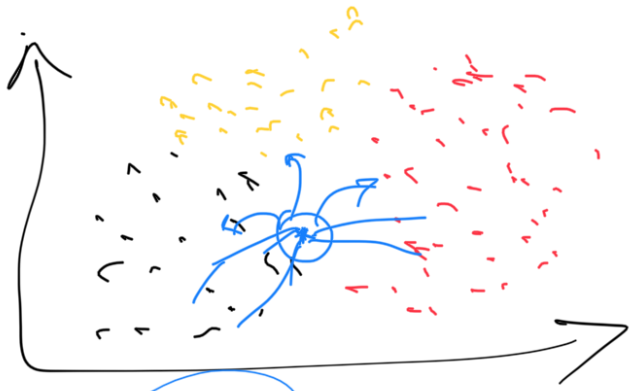
Assumption about the data to be fed → parameter method

⇒ K-Nearest Neighbors

Trying Classify → datapts - w.r.t nearest values

Data 1 → 0		Mail 0	Spam
Data 2	1	Mail 1	Not Spam
Data 3	2	Mail 2	Spam
	3	Mail 3	Spam
	4	Mail 4	Not Spam
	5	Mail 5	





Nearest K-Neighbor

$K = 3$

$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

odd vals

avoid confusion

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