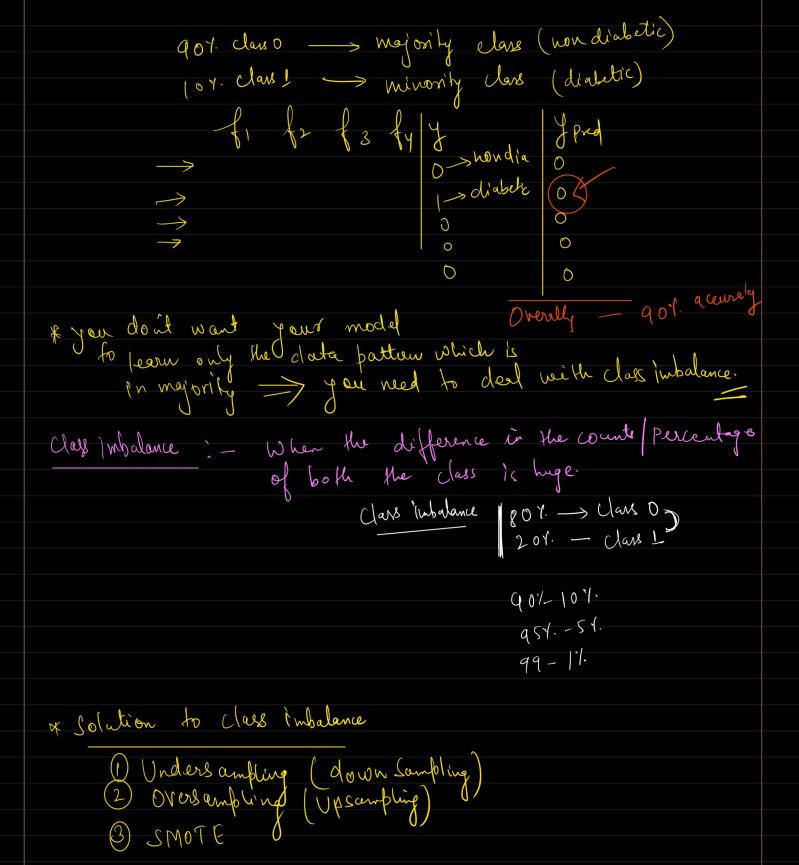
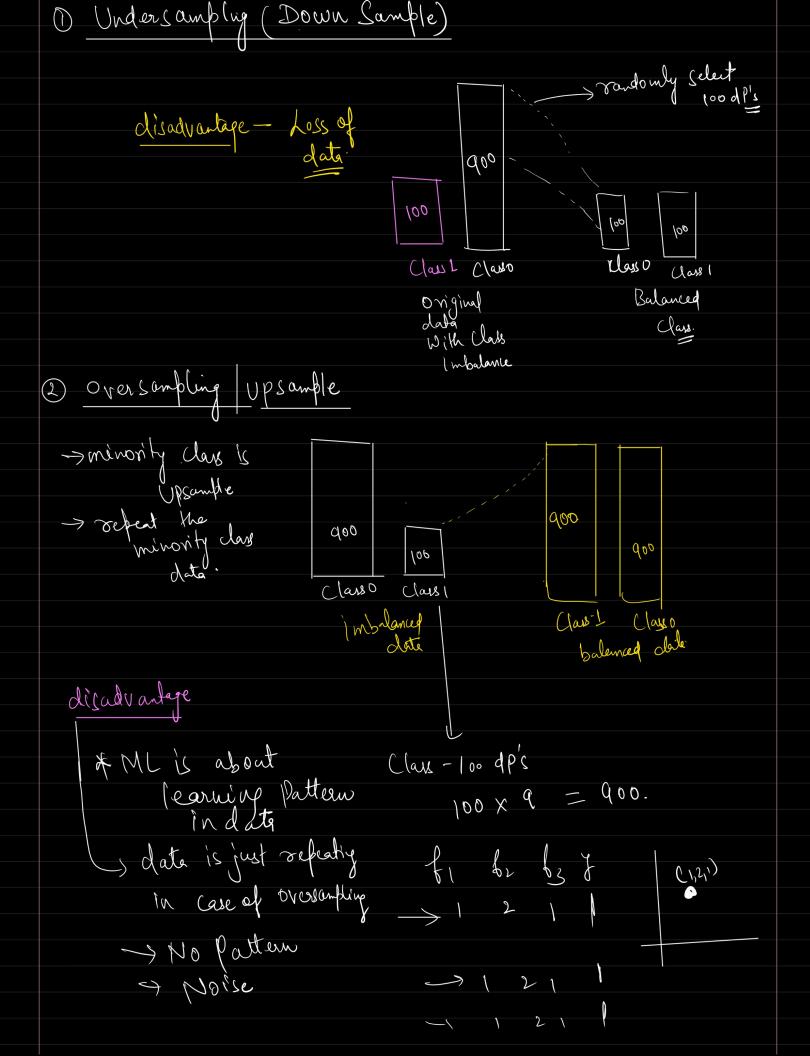
Imbalanced data	
	Supervised Learning
	Regression classification
	J'is continuous J'is discrete
A L A LANGE (Y)	y { -> Pax Fail >> Dlabetic Not diab
* 2 outcomes of target variable (y) —> binary classific	ha latte
	at on problem
(bi)	
Ly two.	y (dialetic/Not)
Sugar level Cholestrol (f1) (f2)	
) diabetic
300 100) lightic
400 200	o > non diabetic
	015% - 0 (non-dia)
	90% — 0 (non-dia)
* Assuming you don't build any mod	of -> you predict every thing
	quere
\rightarrow α	Os class o
* Class imbalance	0.1. of a curacy.
Vasz / mg wance	
im + balanced class.	
	le le tara de la
> when one class has very	class impolance.
to open class, pur	(90)





3 SMOTE (Synthetic Mi	won'ty Oversamp	ng technique
of No pattern is solved as seen in Oversamplings	× > Class	0
datapoints (class o) will always reason smo	be fogether this is the is effective.	&
How to use in f	ndus hy	
or In foraction implementation	Judessampliène SMO foo : 40 Loo : 40	(e
Population. 2 o o o o o o o o o o o o o o o o o o	With replacement S1 (1,2) (data point S2 (1,3) (an becaused) S3 (2,3) S4 (4,2)	without seplacent S1(112) S2(314) S3(5) date will not be repealed.