

	(prevalance 51, or less)	
Non- Linearity In REGRESSION:		
Transform 7 eq. ln(Y) - Can make linear relation - Can address non-wonstant raniana Can cause Parblem in interpretability	O Linearity () Constant Variance (Homoscodaticity)	
(ath (x) M, Kl C x magernar (S)		
#Ladder of transformations		
@ Polynomial /Quadratic fitting 9 = 50	(Add: of nowers, more	
Again loose Interpretability	(Adding powers, more infloction points)	
	x₃ [<u>~</u> x₂ [√	
Categoriery X Loss of Information	^ 11	
ABCD		
B Non-linear Regranism Model eq.	SPLINE isalv. No Enterprefability have wreft for X jeatine inp	
R2= coff of Determination		
In a simple linear reg. R2 in (Reasonicons)?	weff)2	
-1 < 9 < 11 OCR 27	unemplained by model. Unemplained Explained From 8, R= 0.608	
DV SSERROR		

OR & Rate Ratio (RR) - For RARE DISEASE!

0	
R' = SSEMPL =	SSMODEL = - SSERROR SSMODEL + SSERROR SSTOTEL
(S 70TAL	SS MODEL + SS ERROR SS 707 AL
Aginsted R2 = R2-p	enalty for number of x's in Model.
Used in multiple L	inean Rep to counterest some correct best
N L +	h x. + b x. cal Ali R2 daggart converge
/ ~ 70	5. x1+ bax and Adj R2 doesn't comy more explains 1, of variation on R2
NOTE: R2 is generally calculate	
Use validation	
MEASURES OF VARIABILITY	: - RANGE (Mar-Min,)
	- Tar Q3-01
	Range middle 50% of data ordered
	Injustiture to ordliers
	- sample variance (s2)
	- Sample variance (s2) Signature (xi-x)2 Onit = kg2 n-1
	prems: the to on thems
	- Sample S.D (1)=152
Monty hall PROBLEM:	- Sample 3.9
Door	No at the first of the state of the
1 2 3	Youchoose Host Outcome if you switch
Possibility 1 (1)	1 2003 Loose 7 1 han only beloice Win 2/3
2 * 1x	han only location with
3 ×7 × \$	1 -im Win)
	9f you don't switch = book of wirmy = 1/3
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