| ective 07

$$G = g(x) = \frac{3}{5} red + (\frac{5}{9} red - \frac{5}{5} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red - \frac{5}{5} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red + \frac{5}{6} red) \times, let no = \frac{5}{6} red + (\frac{5}{9} red) \times, l$$

$$= P_{9} \stackrel{\text{Z}}{=} \stackrel{\text{S}}{=} \frac{1}{4(1-P_{9})} \stackrel{\text{Z}}{=} \stackrel{\text{S}}{=} \frac{1}{2} \stackrel{\text{Z}}{=} \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} = P_{9} \stackrel{\text{Z}}{=} \frac{1}{2} \frac{1}{2} \frac{1}{2} = P_{9} \stackrel{\text{Z}}{=} \frac{1}{2} = P_{9} \stackrel{\text{Z}}{=} \frac{1}{2} = P_{$$

bo= 5-6, X=Pg 5g+(1-Pg) 5x-(5g-5,) Pg=9r

= 99 - 4r

$$b_{1} = \frac{\sum x_{1}y_{1} - n\overline{x}y_{2}}{\sum x_{1}^{2} - n\overline{x}^{2}} = \frac{n_{2}\overline{y}_{2} - n_{2}\overline{y}_{3}}{n_{3}^{2} - n_{3}\overline{y}_{3}} = \frac{1}{n_{3}^{2} - n_{3}\overline{y}_{3}} = \frac{1}{n_{3}^{2}$$

Ond green

What If X Vn Ered, preen, blug? This is then

P= 2 and we need an OLS Solution for P= 11 But

Laturines.

1x=9700

A(X)= Fred If X=red = Fred + (Fire - Fred) X, +

Fred If X=pred = b

Fred + (Fire - Fred) X, +

Fred If X=blue

(Fbire - Fred) X2

thon well does g predict? he need a "model performent metile". In the Sum this was accurate or misselessituation error. Here it will can also be what we use heteromy,

10 the algorithm

556 := £ e= £ (5:-9(x0))2

IS SSE Interpretable? No, 10+15 take the mean at 1005t, Call that mean square elver (MSE):

MSE = 1 SSE

But the 13 still 1- the Squared unit of the phenomeron so 1+15 5 fill uninterpetable. We can take the squared Voot of MSE Could voot mean squared BRYON (RANSE)

De= RMSE = Vair Zeit = JmsE RMSE 16 In the Sure unit us 9 Citib are to the Strave deven. of the relations se Abofrom the CLT [000 #1.96, RASE] is approxime 95% confidence instained for the the 9 at that X. RMSE IS a very Impostory meone In regilesian models, Another important error / pertormone messic is 11 R-Squared 11. Which is the "propostion of variance explained ", we will now explain this definition Consider the new model 90 = 5. What Is the 85% of this model : Lots Can it SSEO 55 Eg = & eo, =: & (8, -7) = 55 T= (1-1) 5 } Sun of Savins forol To the second se

$$\frac{55E_{-}(n-1)5e^{2}}{55T} = \frac{5e^{2}}{5}$$

$$R^{2} = \frac{55T - 55E}{55T} = \frac{(n-1)5e^{2} - (n-1)5e^{2}}{(n-1)5e^{2}} = \frac{5e^{2}}{5e^{2}}$$

$$C^{2} = \frac{55T - 55E}{55T} = \frac{(n-1)5e^{2} - (n-1)5e^{2}}{(n-1)5e^{2}} = \frac{5e^{2}}{5e^{2}}$$

R-Squeecen rom be more than 100%. But R-Squald can be regarded, This over the Size 7 50-5 meeting the model to preducting works than 9-0 = FORT HORE'S some often with plots especials who RegarRosea

RegarRosea If RI = 99%, does this new the model is for a we good ? No

because If the Intila venture was 50 mm, long, even a 09% reduction wouldn't report in a small colore vertice ; . e. RMSE SAMI could be high after 99% ranche rodula

he now and like to generall the least source esthmation algorithm to cuses where PZI, Let's beach UH P=2.

SSE = 2 e = E (5,-3,) = E (5,-6 - 10, x1, - We ken)

es anywar (1564, 6, a comman (1567, by runger-fill) whom a wife with The problem on he bothed more blogs with many migrate and a motive my aridin OSLX, 87, 11+ Ka Jer Xal Ru Jo Kei Kei G = X D = | Grand Kei No Kei T Kei Kei G = X D = | Grand Kei No Kei T Kei Xae J G = X D = | Grand Kei No Kei T Kei Xae J G = X D = | Grand Kei No Kei T Kei Xae J G = X D = | Grand Kei No Kei T Kei Xae J G = X D = | Grand Kei No Kei T Kei Xae J G = X D = | Grand Kei No Kei T Kei Xae J E = Kei X D = | G = Kei X D = Kei X depre ê := j-j SSE = & B = E E = (3-F) (5-F) = (5257) (\$-\$) = \$'\$-\$#\$-\$"\$=\$"\$-2\$"\$+ =デザーマ(メロ)サー(メロ)なの=

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