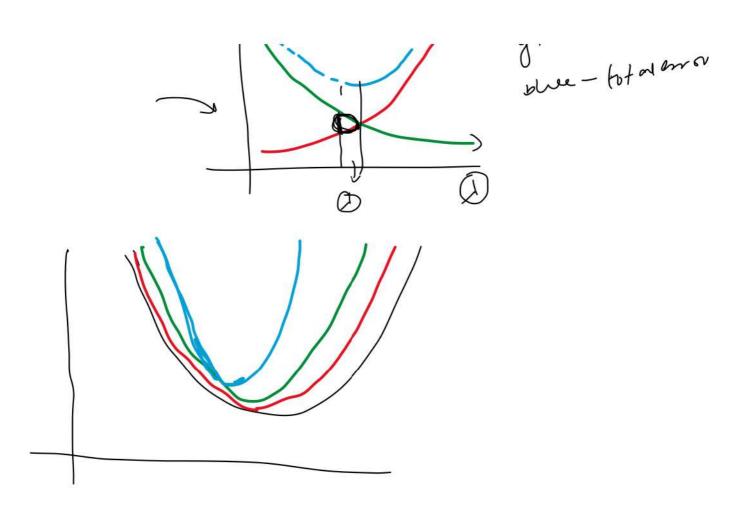


Day 56 - Lasso Regression Page 281



Friday, June 11, 20	21 11:21 A	M										Lass	S D	
	age	sex	bmi	Ridge	s1	s2	s3	s4	s5	s 6		spa		,
0.0000	-9.160885	-205.462260	516.684624		-895.543609	561.214533	153.884786	126.734316	861.121400	52.419828			8 8	
0.0001	-9.118336	-205.337133			-883.415291	551.553259	148.578680	125.355917	856.480254	52.467627		λf	1	$M \rightarrow 0$
0.0010	-8.763583	-204.321125	518.371729	339.975385	-787.690766	475.274718	106.786540	114.632063	819.739542	52.872100		/\ \		
0.0100	-6.401088	-198.669767	522.048548	336.348363	-383.709187	152.663678	-66.060583	75.611090	659.869402	55.828128				
0.1000	6.642753	-172.242166	485.523872		-72.939323			83.616653		73.584154				
1.0000	42.242217	-57.305508 1.659796	282.170831 63.659772	198.061386 48.493240	14.363544 18.421492	-22.551274 12.875448	-136.930053 -38.915435	102.023193 38.842464	260.104308 61.612405	98.552274 35.505355				
100.0000	2.858979	0.629452	7.540604	5.849997	2.710879	2.142134	-4.834047	5.108223	7.448466	4.576129				
1000.0000	0.295726	0.069290	0.769004	0.597829	0.282900	0.225936	-0.495607	0.527031	0.761497	0.471029				
10000.0000	0.029674	0.006995	0.077054	0.059915	0.028412	0.022715	-0.049686	0.052870	0.076321	0.047241				
			Sing	gle	x Jy	→								
	age	sex	bmi	bp	s1	s2	s3	54	s 5	s6		foc	ture	
alpha	0.400005	005 400000	1540 004004	040 007044	005 5 40500	504 044500	450 004700	400 704044	204 404005	50 440000	-	fec	10 -12	m
0.0000	-9.160885 -9.071288	-205.462260 -205.337332	516.684624	340.627341	-895.543596 -888.652320	561.214523 555.952271	153.884780 150.585260	126.734314 125.453044	861.121395 858.639860	52.419828 52.379002		80		
V	-8.264924	-204.213177	17.641106	339.751339	-826,653342	508.609613	120.899583	113.924518	836.314382	52.011583				
0.0100	-1.361404	-192.944226	526.348511	332.649058	-430.205495	191.277876	-44.048113	68.990747	688.384976	47.939528				
0.1000	0.000000	-113,976046	526.737112	292.635423	-82.691928	-0.000000	-152.691332	0.000000	551.077200	7.169852				
1.0000	0.000000	0.000000	363.882636	27.278420	0.000000	0.000000	-0.000000	0.000000	336.135971	0.000000				
100,0000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.000000	0.000000	0.000000	0.000000				
1000.0000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.000000	0.000000	0.000000	0.000000		ا	().	-11× - 1
10000.0000	0.000000	0.000000	0.000000	0,000000	0.000000	0.000000	-0.000000	0.000000	0.000000	0.000000	m	1=5	- ()!-	\overline{y}) $(x_i - \overline{x})$
	1 .													
511	npu		y= m	1 7+6		1								·,-x)2+人
)	× y		1	1			Y m=	n	- \	1	./	1=1		
	FE 16	1			.,	e 1	m =	\leq (y; -y) '	(x'-x))			
			> b	- X -	mx	- 1	1	1=1						
				$\gamma \rightarrow$	mean (, ,		2	LXi-	χ)				
				\overline{X} —	, muni	7)	\ 1	/ 1=1						
							1		m =	m				
_		\neg						>0 × D	1					
b = <u>y</u>	_m;	X	$\gamma \gamma = \gamma$	/	, CO		m	m>0		Zm				
			2	> [7 0 1	m -	1	n,	1.00		, 1	2, -) \ In	^
L=	: Z	ξ ();-	· Ŷî Y	± 71	m 		Ty ?		- m xi	-y +'	<u></u>	7 '		-'
4 -	2/	(À. –	mx;-	- y + w	$(\frac{1}{x})^2$) + 2 × =
-	<u> = 1</u>	£1		£1	, ,			37-30	1386 25 					
9 m	1 ,								a	الر	(.)	√1 ² -	< (i	vv \ (xx)
										m S	(X)-	x) =	2	y;-y) (x;-x)
£2 8	- [(v. ~) _~	n (x: -	(<u>x</u>	X:-x) + 2,	1 = 0	1					-/
-75	, ſ,	7 - /	′ —	(,,))				-					
									,	m -	S(y	(-V)	(xi=	x) -λ
						•			L [· - ·	_ '	1 /	•	f

Demoninator



ElasticNet Regression

aturday, June 12, 2021 1:04 PM

Ridge $L = \sum_{i=1}^{\infty} (y_i - \hat{y}_i)^2 + \lambda \|W\|^2$ $L = \sum_{i=1}^{\infty} (y_i - \hat{y}_i)^2 + \lambda \|W\|^2$ $L = \sum_{i=1}^{\infty} (y_i - \hat{y}_i)^2 + \lambda \|W\|^2$ $L = \sum_{i=1}^{\infty} (y_i - \hat{y}_i)^2 + \lambda \|W\|^2$ $L = \sum_{i=1}^{\infty} (y_i - \hat{y}_i)^2 + \lambda \|W\|^2$ $L = \sum_{i=1}^{\infty} (y_i - \hat{y}_i)^2 + \lambda \|W\|^2$ Saturday, June 12, 2021 $\frac{\lambda=1}{a=0.5} \frac{\{l_{-ratio}=0.5\}}{b=0.5} \qquad \begin{cases} \frac{\lambda_{9} l_{-ratio}}{l_{1}} \\ \frac{\lambda_{1}}{\lambda_{2}} \\ \frac{\lambda_{2} l_{-ratio}}{l_{1}} \\ \frac{\lambda_{3} l_{-ratio}}{l_{1}} \\ \frac{\lambda_{1}}{\lambda_{2}} \\ \frac{\lambda_{2} l_{-ratio}}{l_{1}} \\ \frac{\lambda_{3} l_{-ratio}}{$