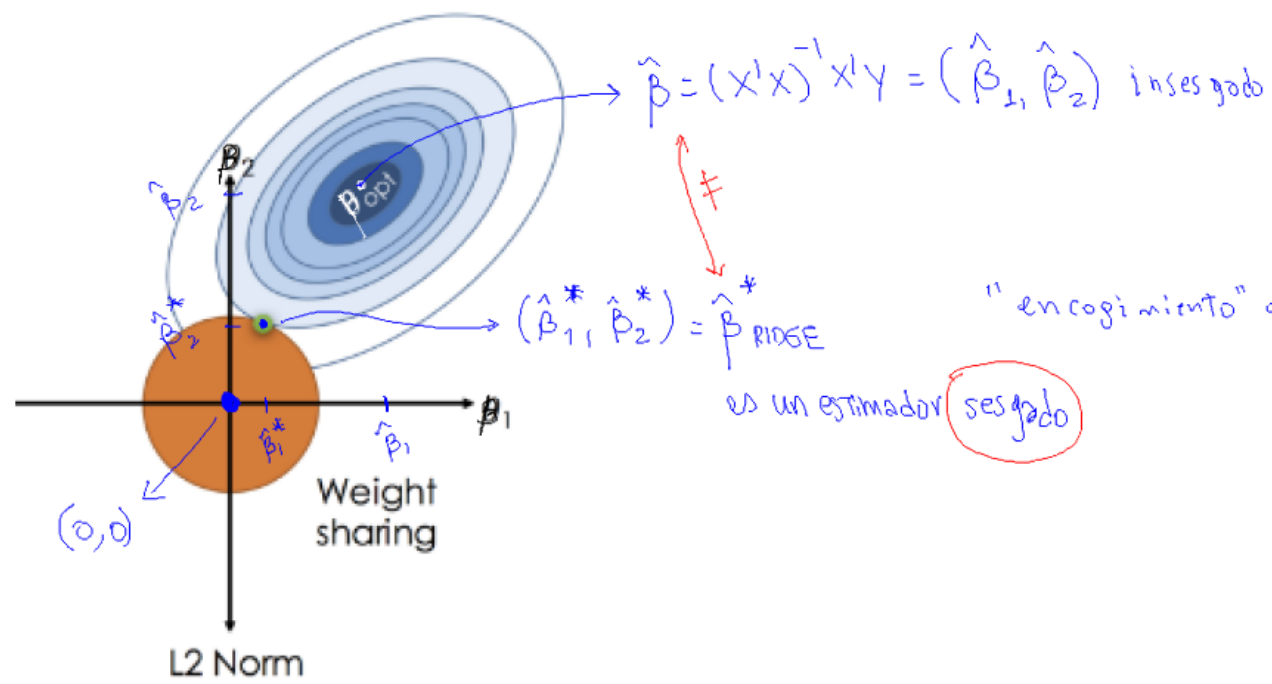


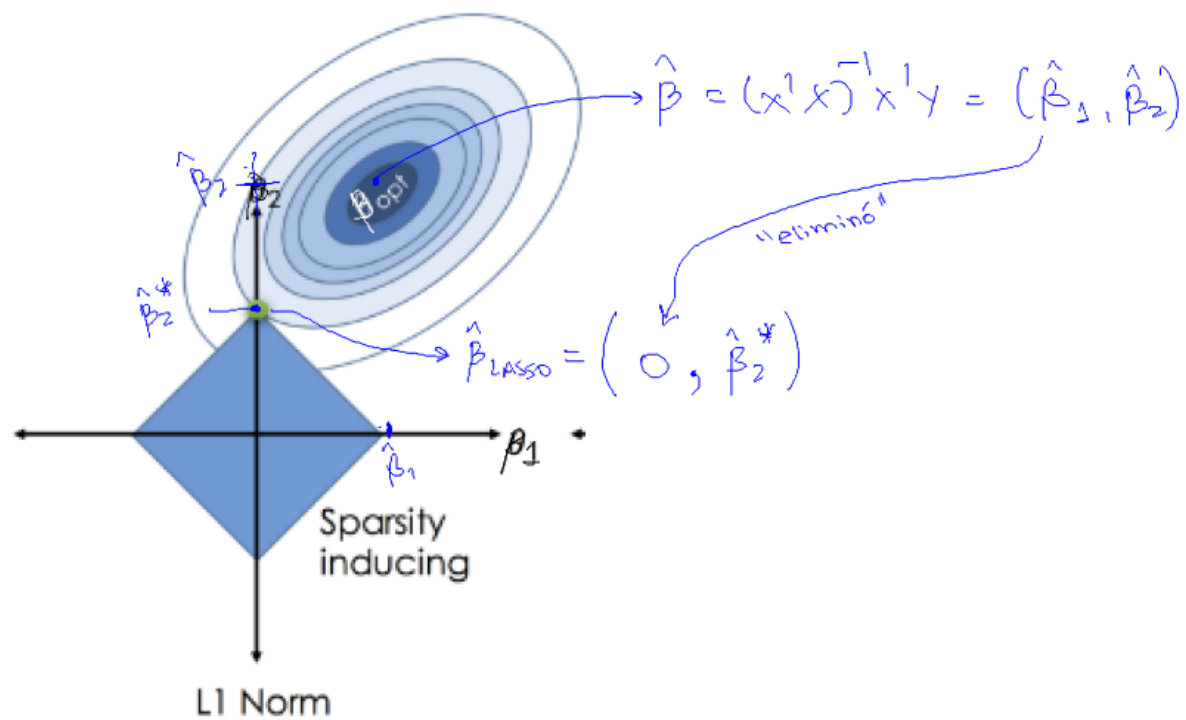
→ RMSE ✓, MAE ✓,  $R^2$  ✓

→ RMSE ↑, MAE ↑,  $R^2$  ↓

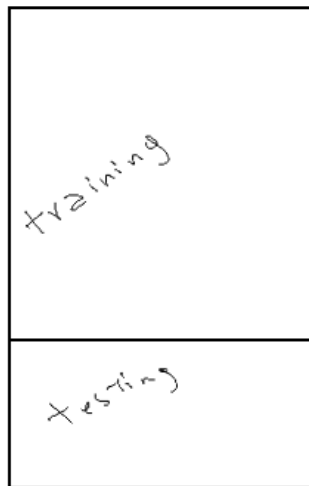


RIDGE

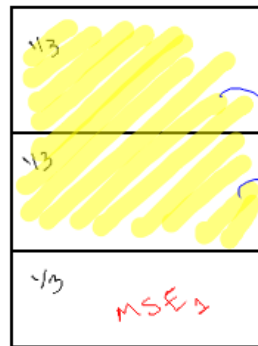
$$\beta_1^2 + \beta_2^2 \leq 1$$



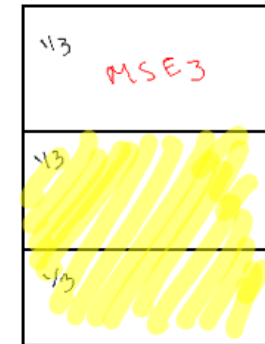
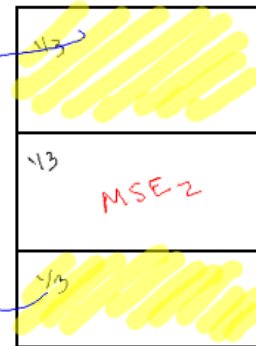
## VALIDACIÓN CRUZADA K-FOLD (3-FOLD)



⇒



ejecuto los  
modelos con distintos



$$MSE = \frac{1}{3} (MSE_1 + MSE_2 + MSE_3)$$

Modelo		RMSE		MAE		R <sup>2</sup>	
		train	test	train	test	train	test
1	y ~ area + horas + eficiencia + antig + equipos	13,545	18,727	10,751	14,887	96,26%	93,79%
			38%		38%		-2,47%
2	y ~ area + horas + eficiencia + antig	19,481	21,915	15,468	16,979	92,27%	91,54%
			12%		10%		-0,73%
3	y ~ area + equipos + horas + eficiencia	13,545	18,727	10,747	14,884	96,26%	93,75%
			38%		38%		-2,51%
4	Ridge	14,702	19,972	11,563	15,767	96,24%	93,77%
			36%		36%		-2,47%
5	Lasso	13,996	19,234	10,89	15,612	96,11%	93,64%
			37%		43%		-2,47%
6	Elastic net	14,331	19,596	11,12	15,827	96,05%	93,61%
			37%		42%		-2,44%