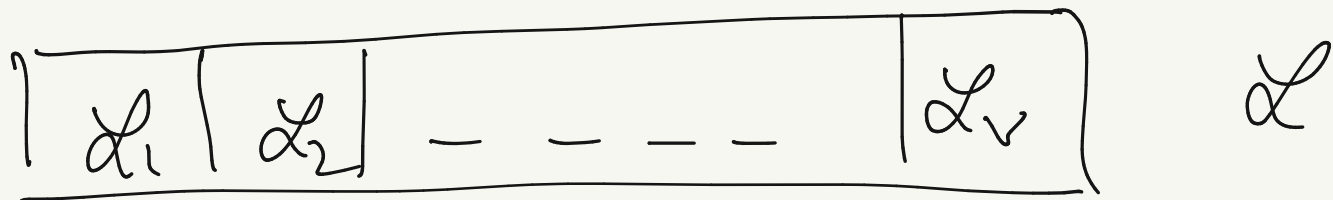


# Validación cruzada.

GRILLA de  $\alpha$ 's  $\{ \alpha_1, \alpha_2, \alpha_3, \dots, \alpha_m \}$   
de  $k$ 's  $\{ 2, 5, 15 \}$



para  $\alpha_1$ :

$$\frac{1}{V} \sum_{v=1}^V \text{error} \left( f_{\alpha_1}^{-v} (Z_v) \right) = \text{error}(\alpha_1) = 0.28$$

para  $\alpha_2$ :

$$\frac{1}{V} \sum_{v=1}^V \text{error} \left( f_{\alpha_2}^{-v} (Z_v) \right) = \text{error}(\alpha_2) = 0.52$$

para  $\alpha_3$ :

$$\frac{1}{V} \sum_{v=1}^V \text{error} \left( f_{\alpha_3}^{-v} (Z_v) \right) = \text{error}(\alpha_3) = 0.31$$

$$\alpha^* = \underset{\alpha_1, \alpha_2, \dots, \alpha_m}{\text{Argmin}} \{ \text{error}(\alpha_1), \dots, \text{error}(\alpha_m) \}$$

= es el valor de  $\alpha$  que minimiza el error

$\hookrightarrow k^* = 2 \Rightarrow \underline{2-NN}$