

Comparison: k-NN and Linear Nets

	k-NN	Linear Nets
Classification	Majority of neighbors	$W\mathbf{x} + \mathbf{b}$
Regression	Mean of neighbors	$W\mathbf{x} + \mathbf{b}$
Training Parameters	None	W, b
Model Parameters	k	
Training Method	None	Online: Widrow-Hoff (ADALINE) Full batch: Pseudo-inverse