

Algorithm	PCA	ICA	k-means	NNMF	VAE	GLM	BM	cRBM
Learns probability distribution	No	No	No	No	Yes	No	Yes	Yes
Learns low-dimensional representation	Yes	Yes	No	Yes	Yes	No	No	Yes
Learns functional connectivity	No	No	No	No	?	Yes	Yes	Yes
Allows inhibiting connections	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Scalable to large data sets	Yes	Yes	Yes	Yes	Yes	No	No	Yes
Perturbation prediction	No	No	No	No	?	No	Yes	Yes
Can infer assemblies	No	No	Yes	Yes	Yes	No	No	Yes