

Method	AUC	% of active nodes
NonMAR-p	0.73 (0.03)	89.1
NonMAR	0.77 (0.04)	97.3
LogisticM	0.72 (.02)	100
Lasso	0.68 (0.01)	27.9
CNN	0.67 (0.03)	-

Table 1: Prediction comparison in HCP data analysis.

Rank	Node	Node
1	r-lateraloc	r-caudalanterior
2	r-middletemp	r-inferiortemp
3	l-inferiortemp	r-inferiortemp
4	r-caudalanterior	r-precentral

Table 2: Top brain edges selected by our method.