

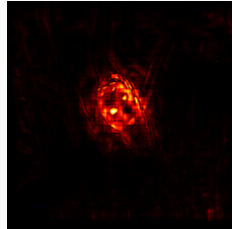
Detecting individual-level deviations in brain morphology among MCI patients with explainable AI

Esten Høyland Leonardsen

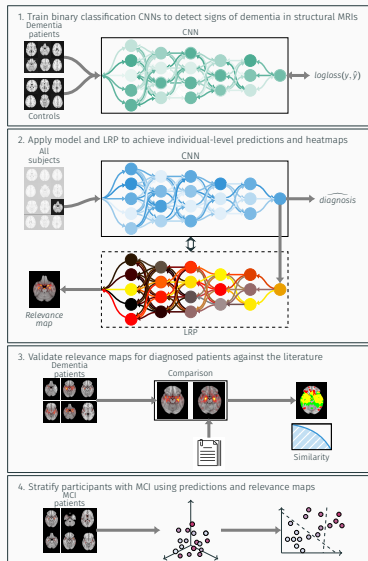
20.10.22

UiO:Life Science, University of Oslo

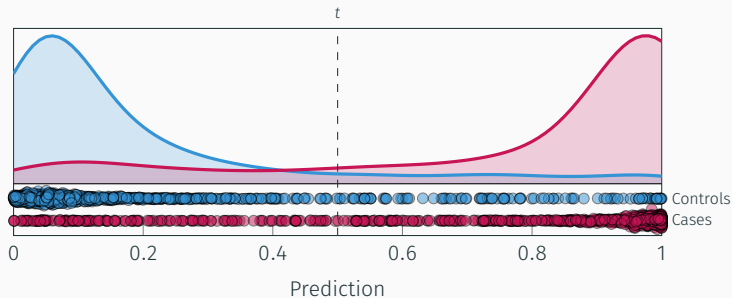




Overview

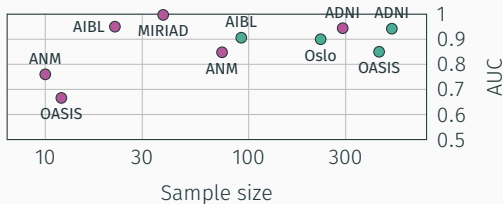


Modelling

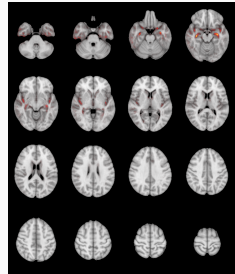
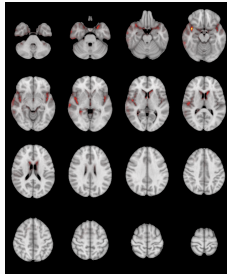
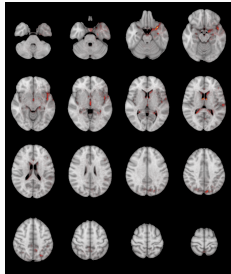


		Predicted	
		0	1
Observed	0	754	100
	1	157	697

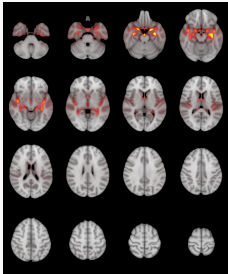
Accuracy: 84.95%



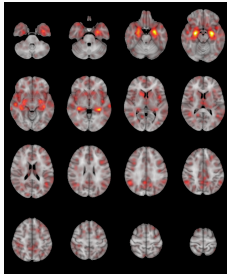
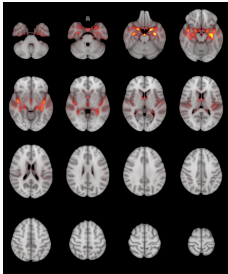
Layerwise Relevance Propagation



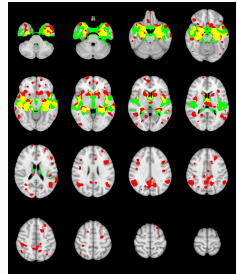
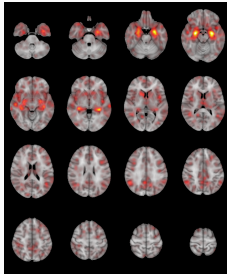
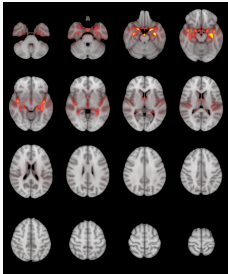
Validation



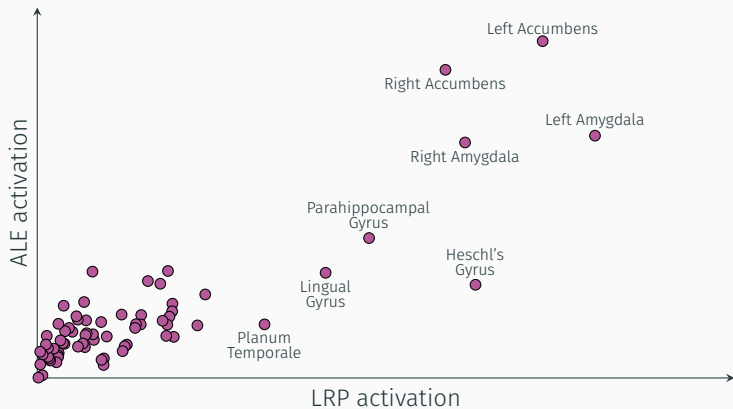
Validation



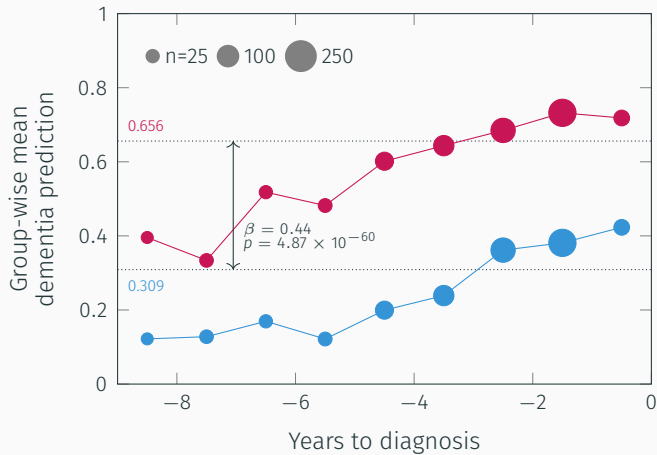
Validation



Validation



Prognosis and personalization



Prognosis and personalization

