



Stepwise and cost-aware feature selection for multiclass-classification of neurodegenerative and neurovascular diseases

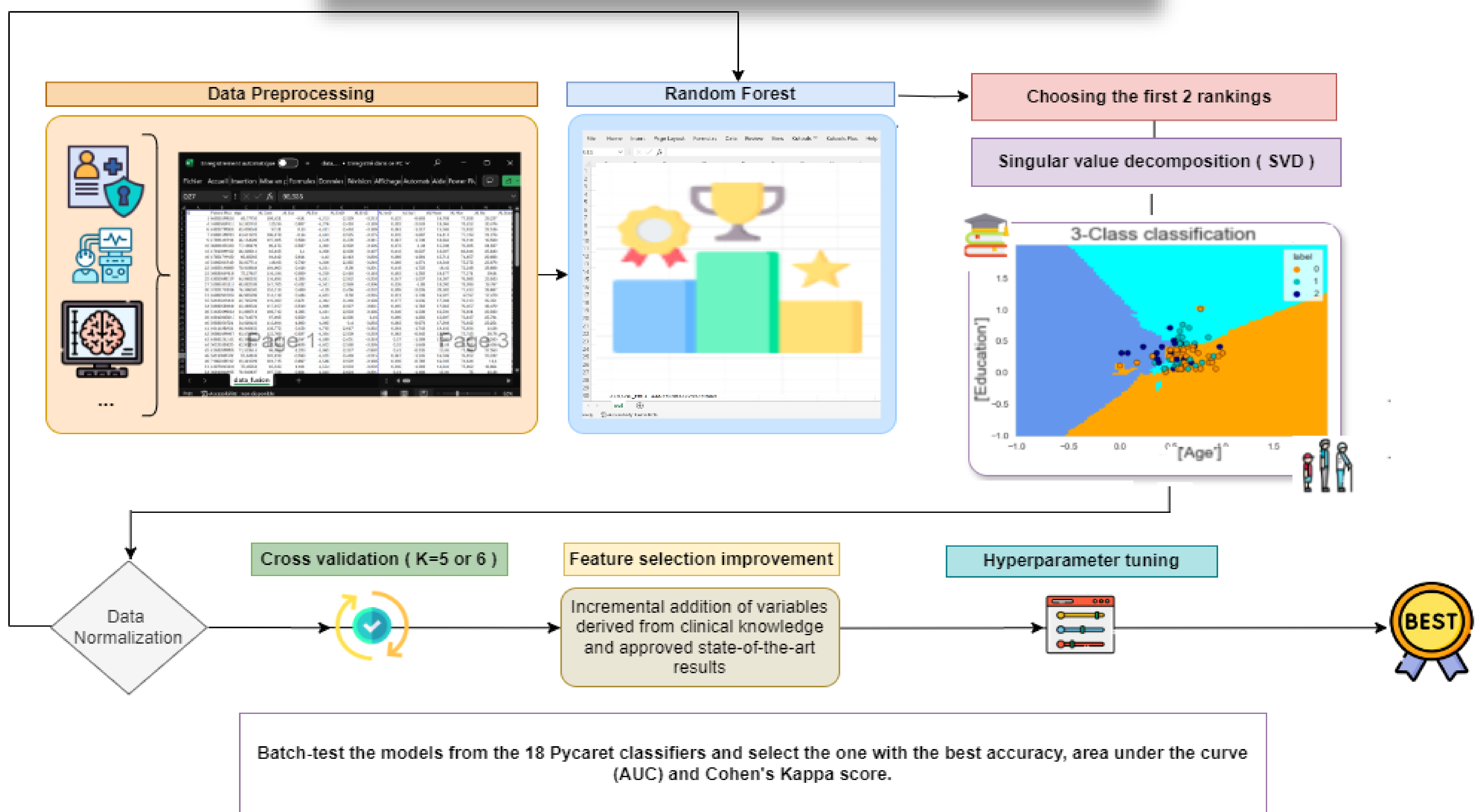
Parkinson



Stroke



The stepwise features addition in multimodal cohorts and the batch learning of simple models could create a clinical standard for monitoring patients with complex brain 🧠 diseases.



COHORTS	Cost-aware				
	Best Classifiers	Num. of features	(in comparison to others)	Accuracy	AUC
Parkinson 206 Pat - 236 Var.	Extra Trees Classifier	17		0.84	0.95
	Ada Boost Classifier	6	💰	0.88	0.97
Stroke 203 Pat. - 255 Var.	Naive Bayes	11		0.76	0.83
	Gradient Boosting	9		0.78	0.85
	Naive Bayes	8	💰	0.78	0.71