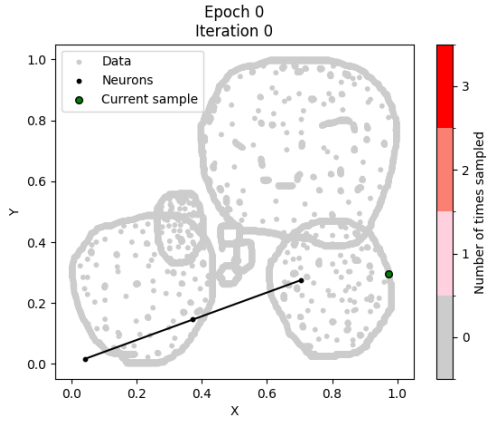
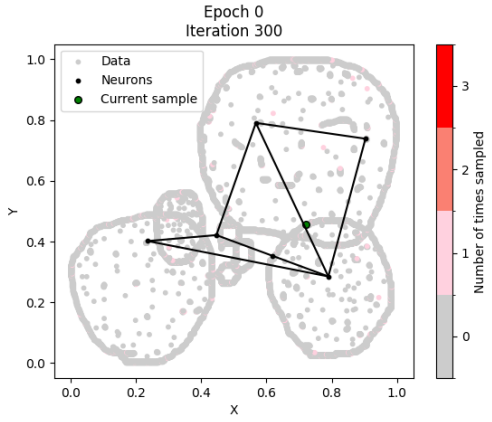
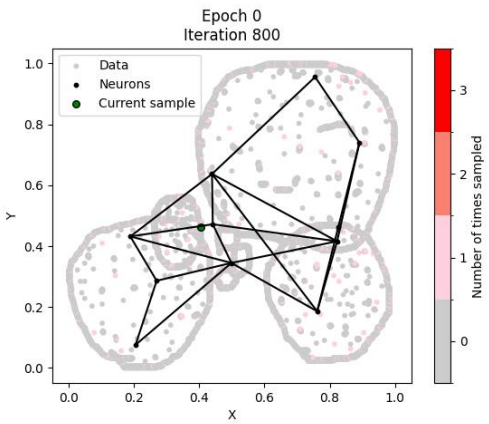
10/15/24

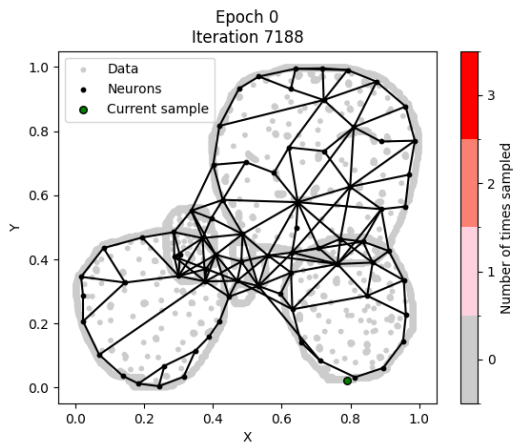
Update on GNG

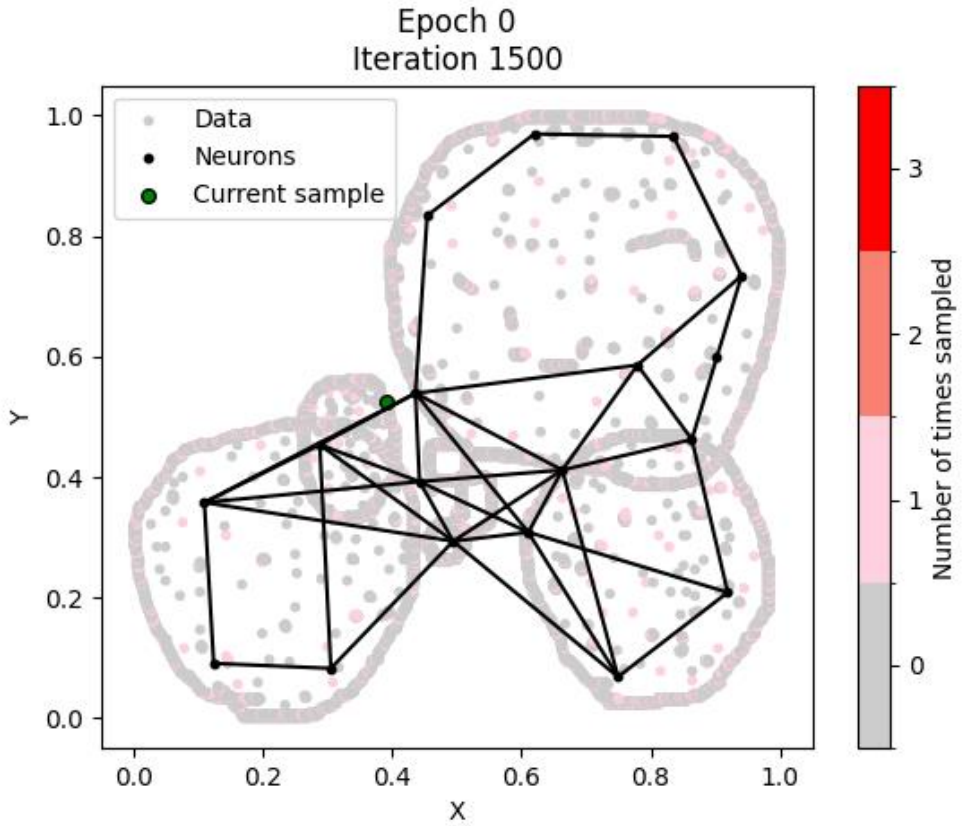
Epoch 0



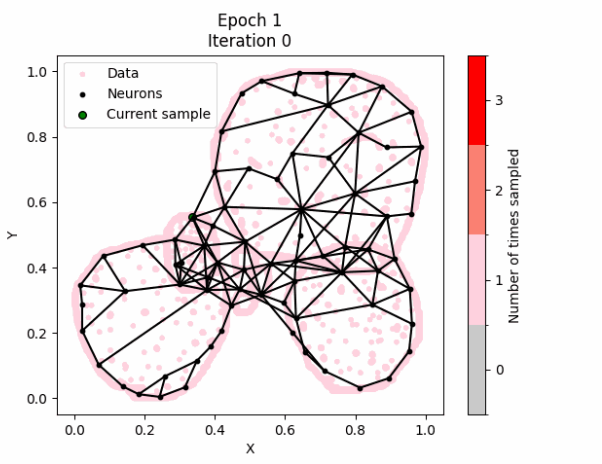


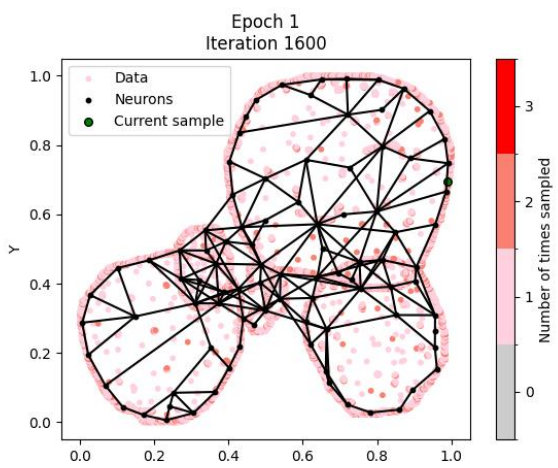


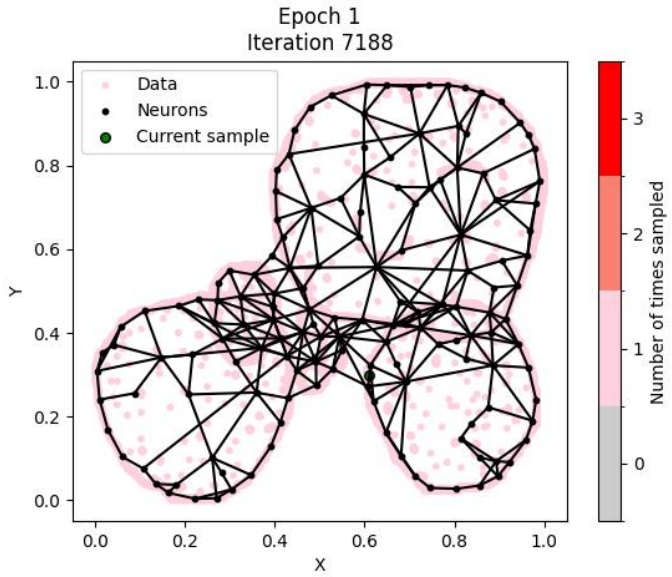




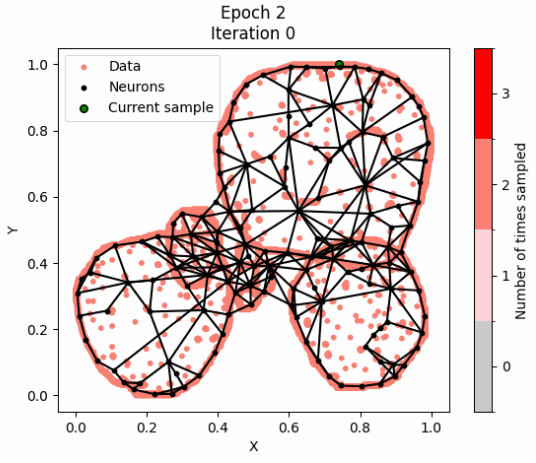
Epoch 1

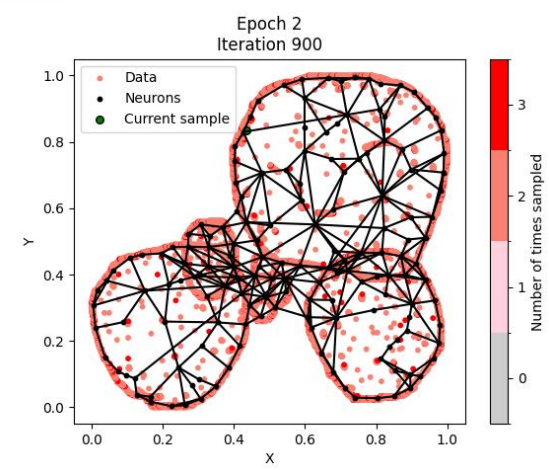


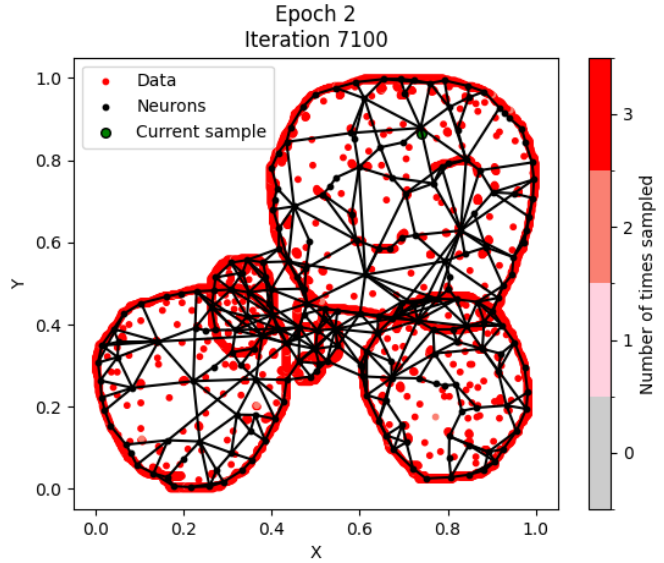




Epoch 2

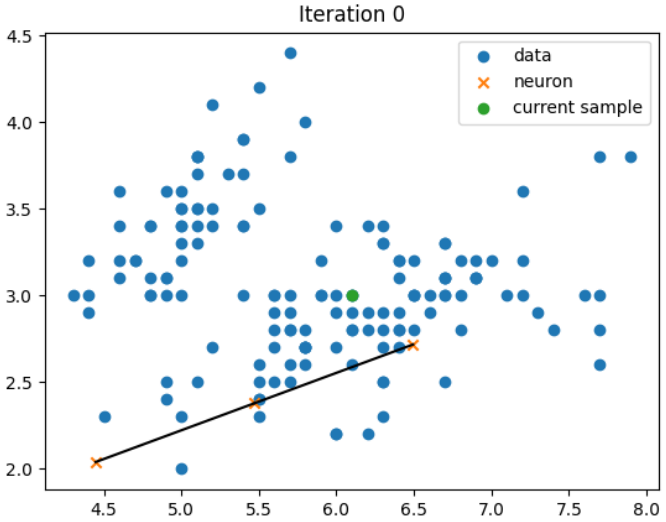


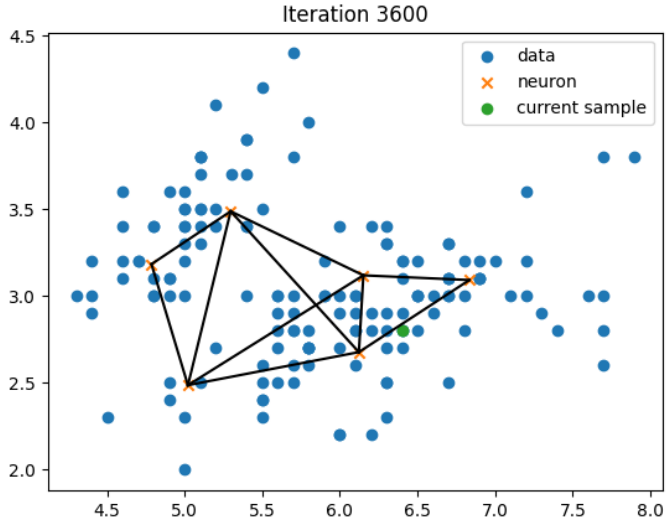


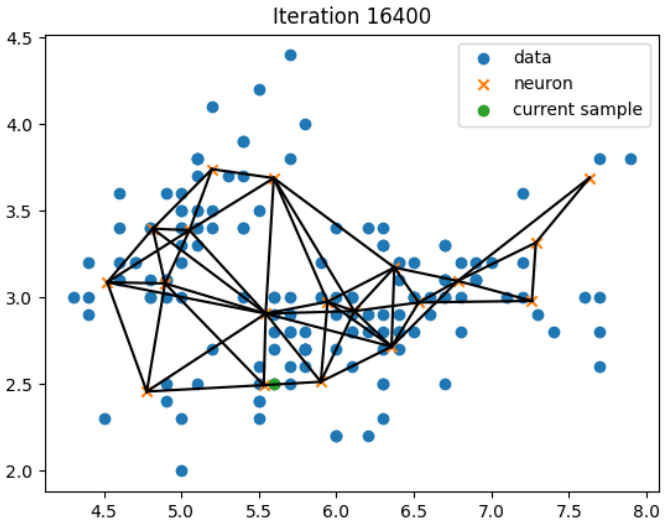


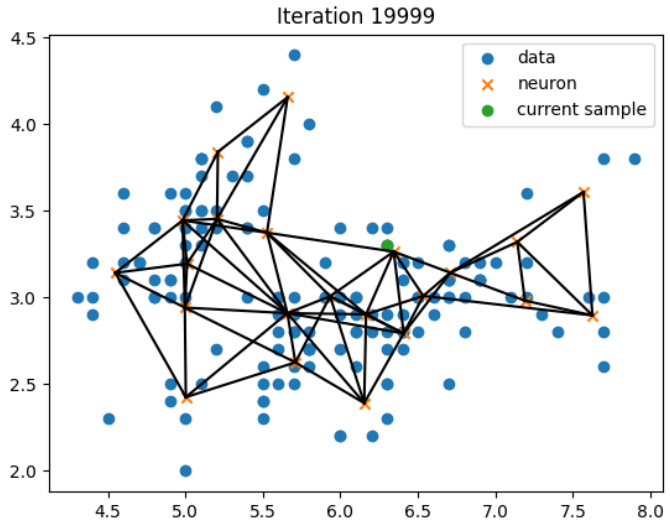
GNG on iris

- **Insert neuron every 1000 iters**
- **Lifetime = 5**







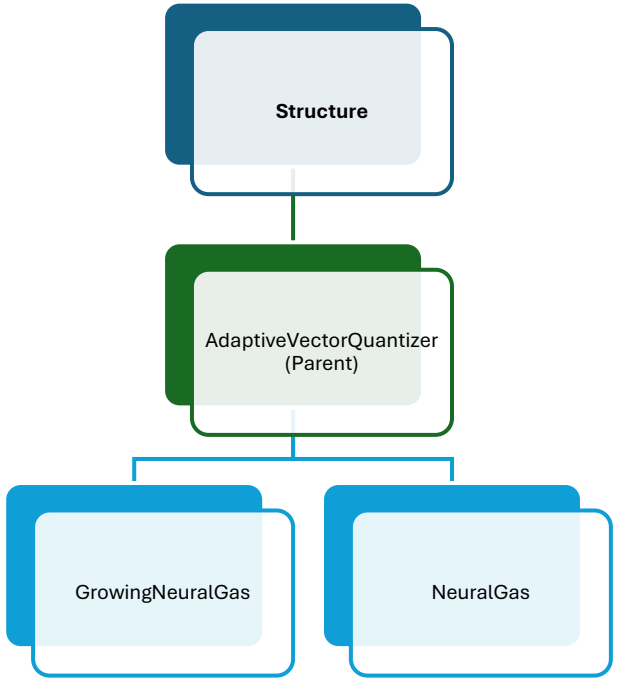


Plan

#	NAME	STATUS	DUE DATE
1	[redacted]	QUESTIONS	
2	Make a simpler version	TO DO	
3	Find out how weights are calculated	TO DO	29/10/24
4	Find out the sigmas for mem. functions	TO DO	22/10/24
5	Sample (input, output) pairs from a neural net and provide it to GNG (use iris)	TO DO	29/10/24
6	Find good GNG hyperparameters	TO DO	
7	Construct IF-THEN rules from GNG output	TO DO	5/11/24
8	Complete coding v0 of system	TO DO	29/11/24
9	Experiments	TO DO	30/12/24
10	Future work	TO DO	

Task	Date
Code v 0.0 of full system	Nov 29
Experiments	Dec 1 – Dec 30
Write paper	Jan 1 onwards

Code


Structure
AdaptiveVectorQuantizer
(Parent)
GrowingNeuralGas
NeuralGas