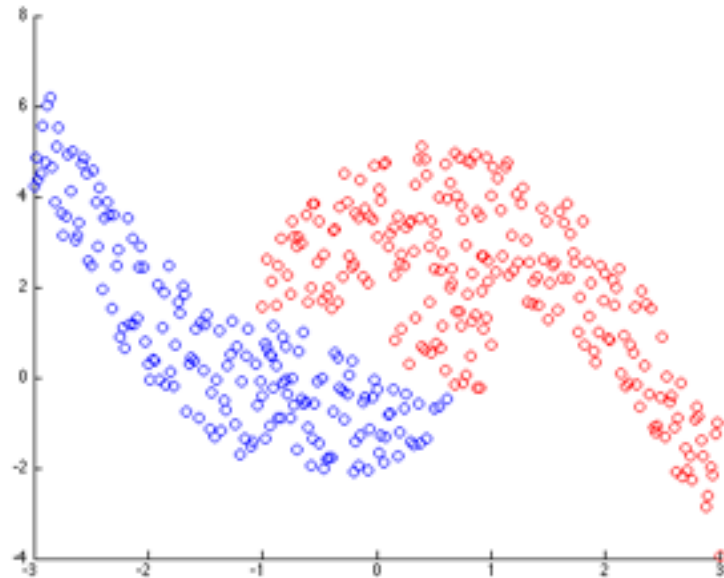


Machine Learning Report

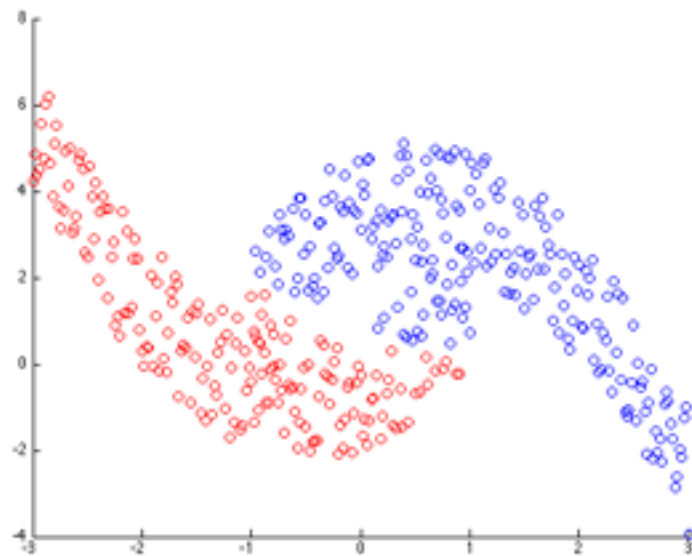
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2D Data Plots

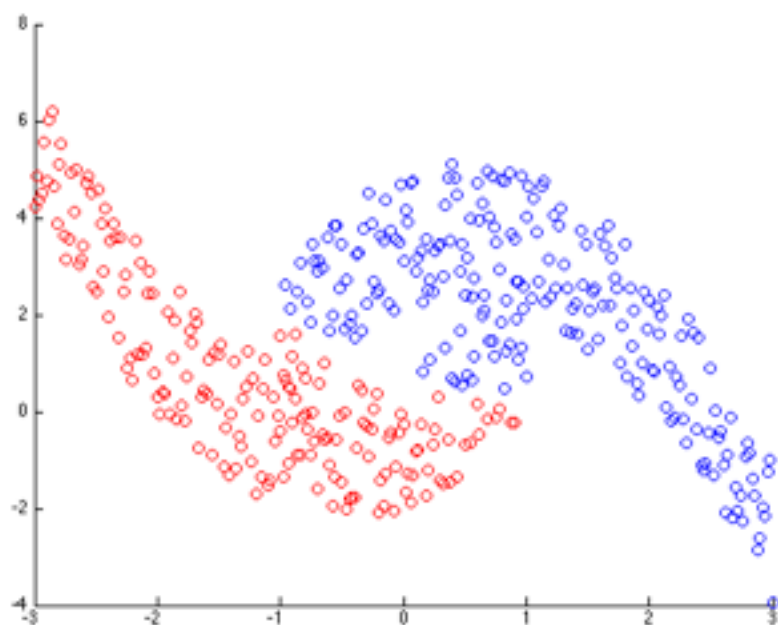
1. Epsilon nearest neighbour



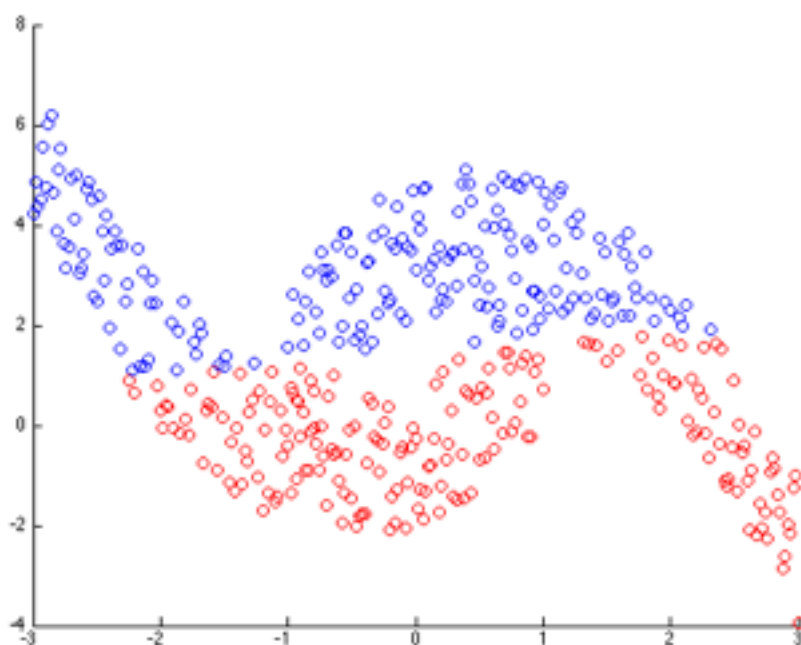
2. Epsilon ball



3. Gaussian



4. K means



Parameters and qualities

	eNN	EBall	Gaussian	K Means
e	3	1.3		
sigma			0.5	
Quality	0.6919	0.6955	0.6955	1.7686

Discussion

After the experiments, I discovered that only the epsilon nearest neighbour is not sensitive to the initialisation, and will not result in unbalanced results.

Also, the evaluation metric will go up if the intra-cluster separation goes up (centroids are separated) or the inter-cluster cohesion goes down (points are close to centroids).

However, clusters with unbalanced initialisations will result in high evaluation metric values.