

## NOTES ON PERFORMANCE OF EACH ALGORITHMS

GA – Accuracy score : 93.31%

Training\_time=2 min,10s

ACO – Accuracy score:93.48%

Training time=6min 50s

PSO – Accuracy score: 93.48%

Training time = 4min 30s

Neural network with gradient descent by backpropagation, accuracy score=97.18%

The training times for all these algorithms are completely dependent on the size of the parameters passed like number of ants, number of particles and population size.

The reason what I assume for lower performance than backpropagation is these algorithms gets stuck on local maxima and are unable to come out of it. So if that is rectified, these optimizing algorithms might give better performance.