

Method	KNN	SVM _L	SVM _R	MLP
Baseline	0.70560	0.71036	0.73557	0.75462
SSGA	0.84313	0.836974	0.81092	0.88235
SEDA	0.84537	0.846218	0.84958	0.857142

- KNN has shown to be taken the least time. MLP has given the best results but has taken a larger amount of time, relatively.
- KNN always fluctuated between 0.84 and 0.86 for fitness. KNN was very similar between both.
- SVM_L improves fitness a slight amount but lot more time, and MLP went down in both time and fitness but it could have been to do with how many iterations we used.
- SVM_R fitness/accuracy went up and went faster with SEDA compared to SSGA.
- For MLP, even with an increase in replacement of the worst fitness individuals in the population, there was not significant improvement. This was more noticeable in SEDA.

Runtimes/Time Taken for each Method given below (in minutes) -

Method	KNN	SVM _L	SVM _R	MLP
SSGA	30.643	62.5611	592.0555	1887.589
SEDA	31.343	377.3341	109.958	119.1724

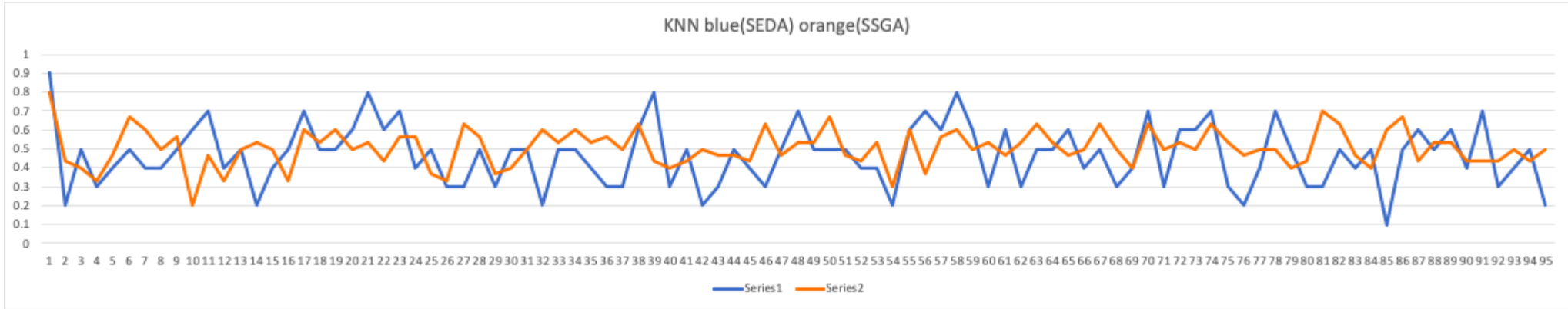
Population size(s) used for the models are as follows -

Method	KNN	SVM _L	SVM _R	MLP
SSGA	20	50	50	50
SEDA	20	50	50	50

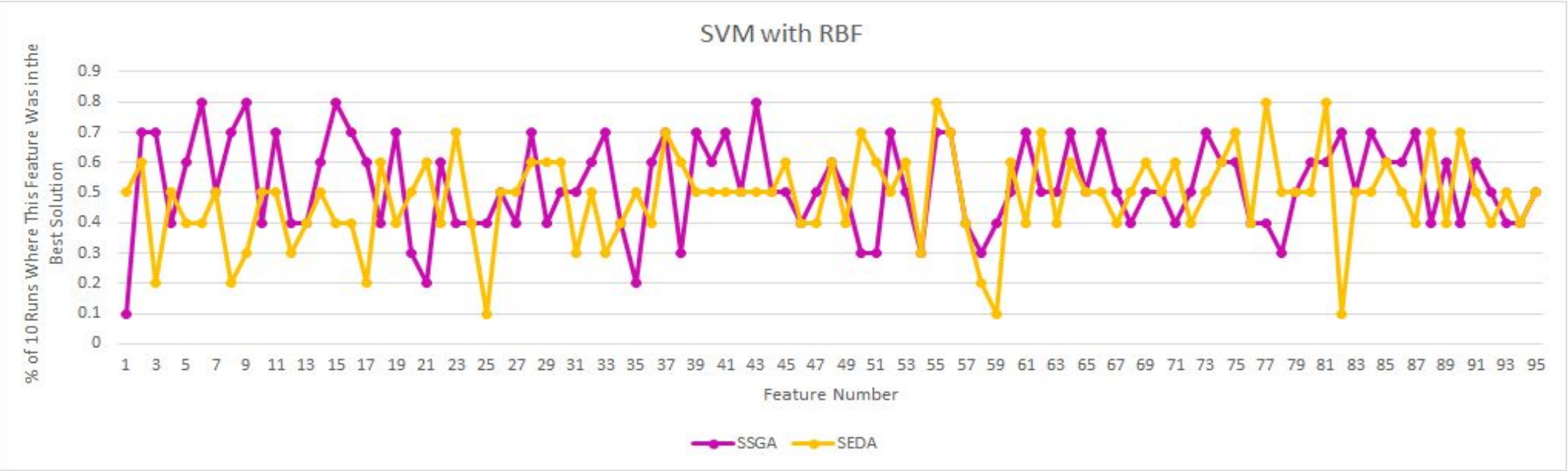
Mutation amounts for all models -

Method	KNN	SVM _L	SVM _R	MLP
SSGA	0.2	0.05	0.05	0.05
SEDA	0.2	0.05	0.05	0.05

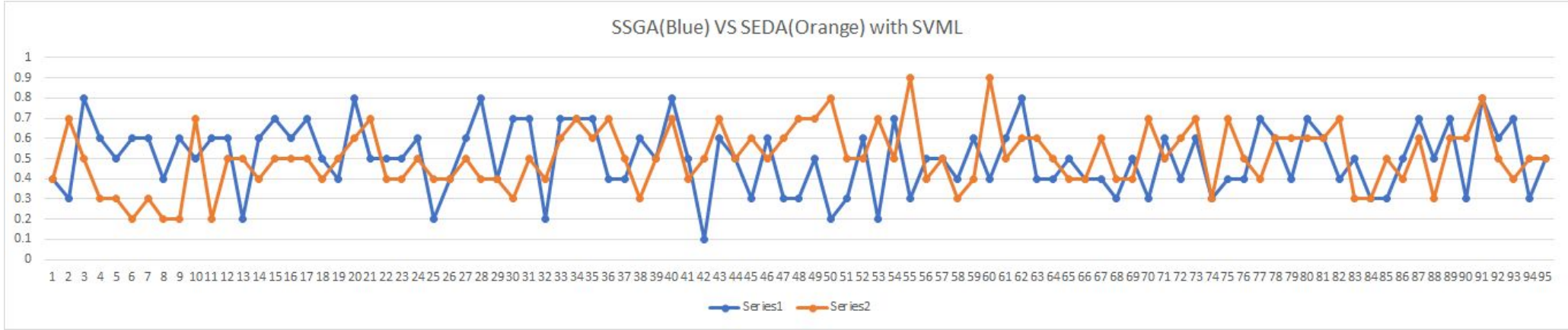
KNN



SVM with RBF



SVML



MLP

