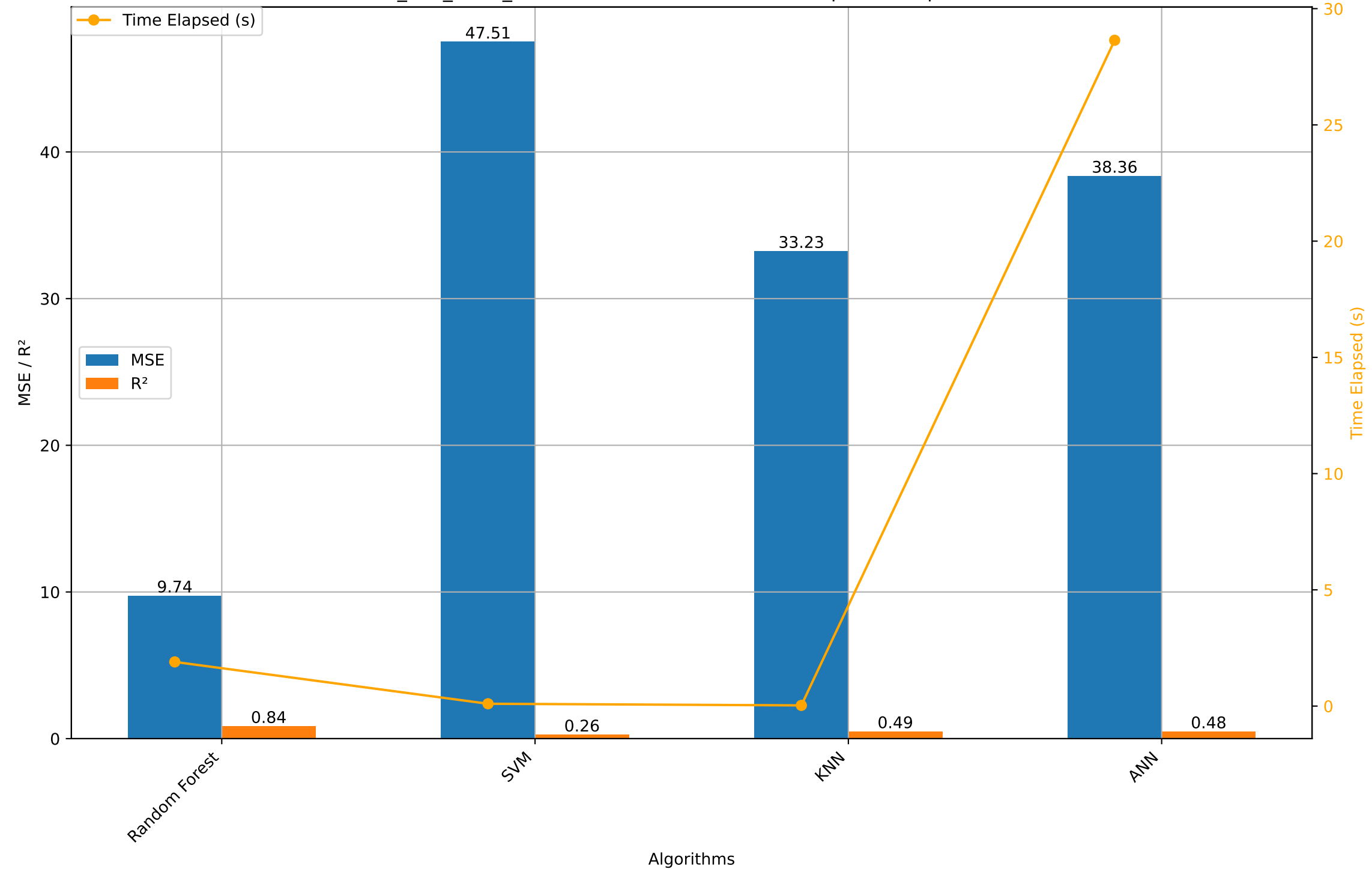
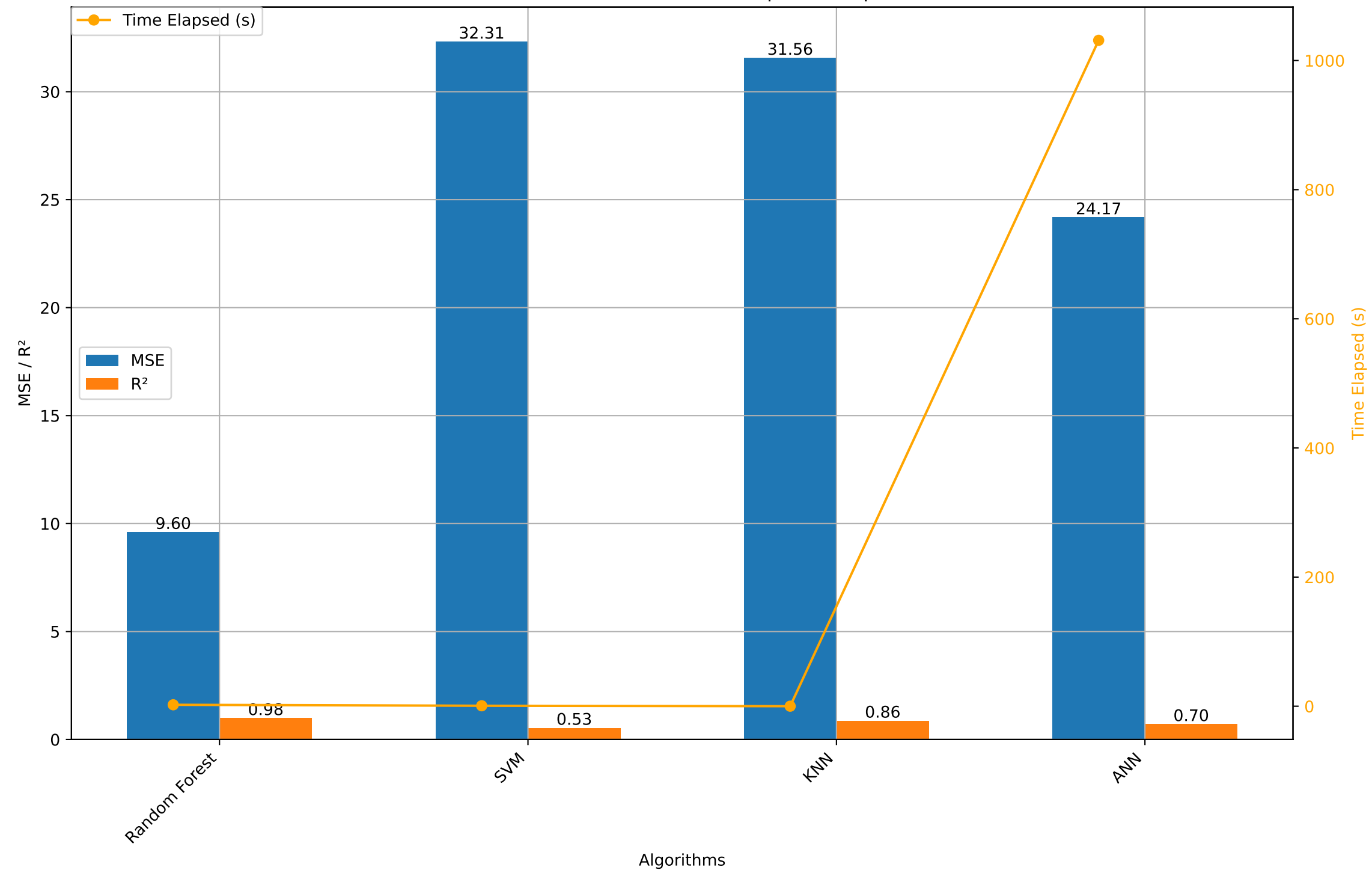


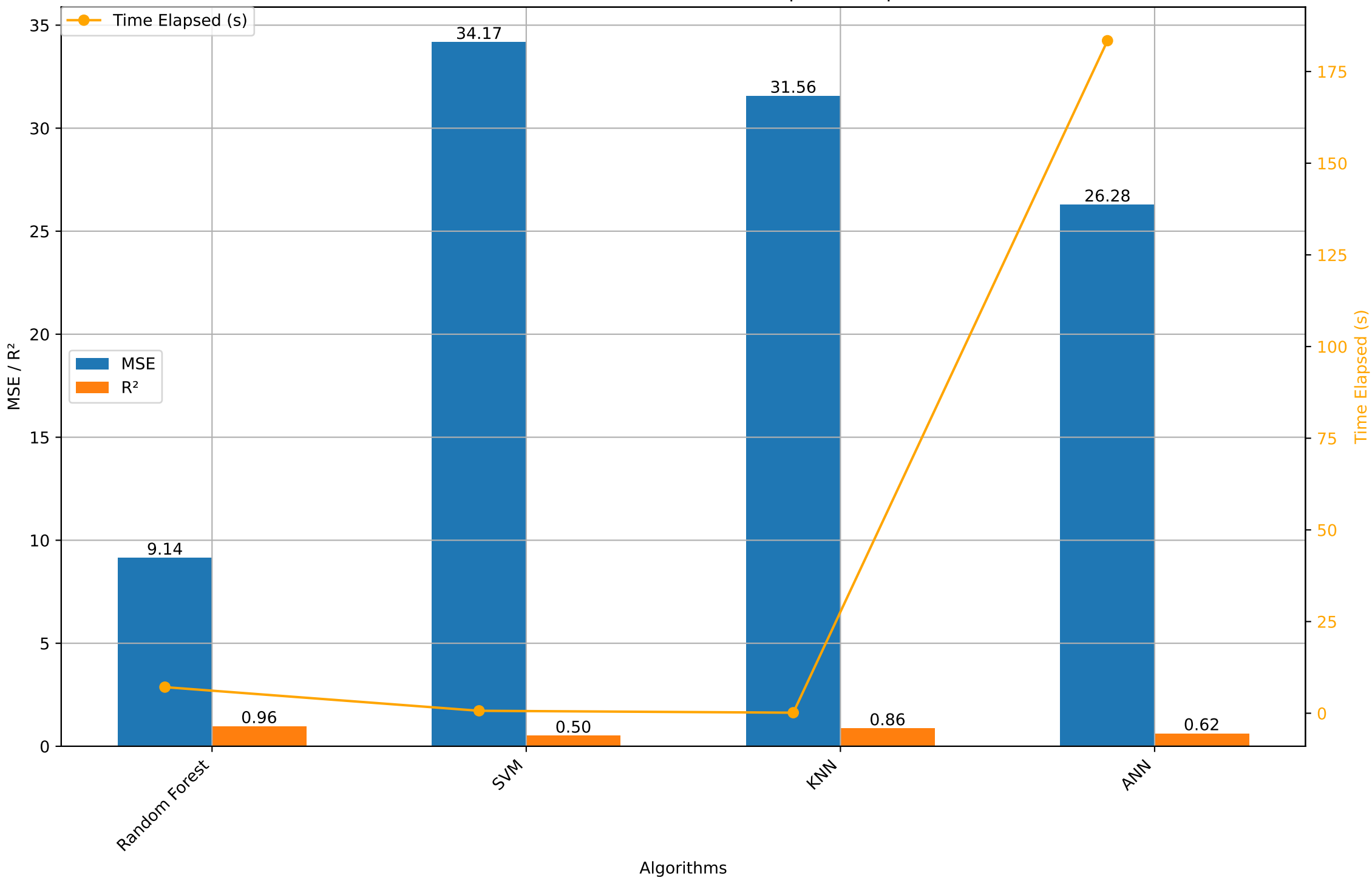
3_fold_cross_validation - MSE, R² and Time Elapsed Comparison

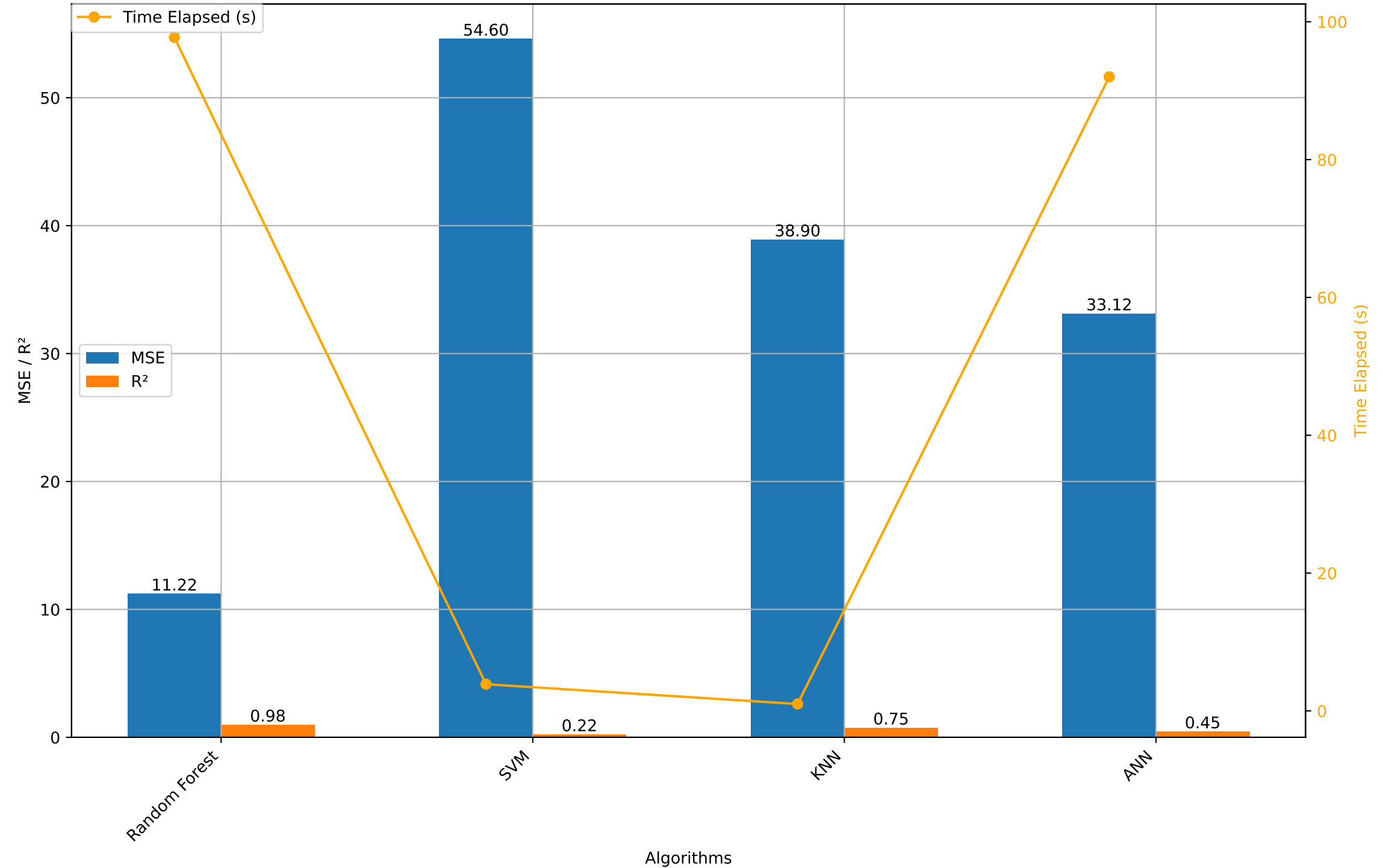


Grid Search - MSE, R² and Time Elapsed Comparison

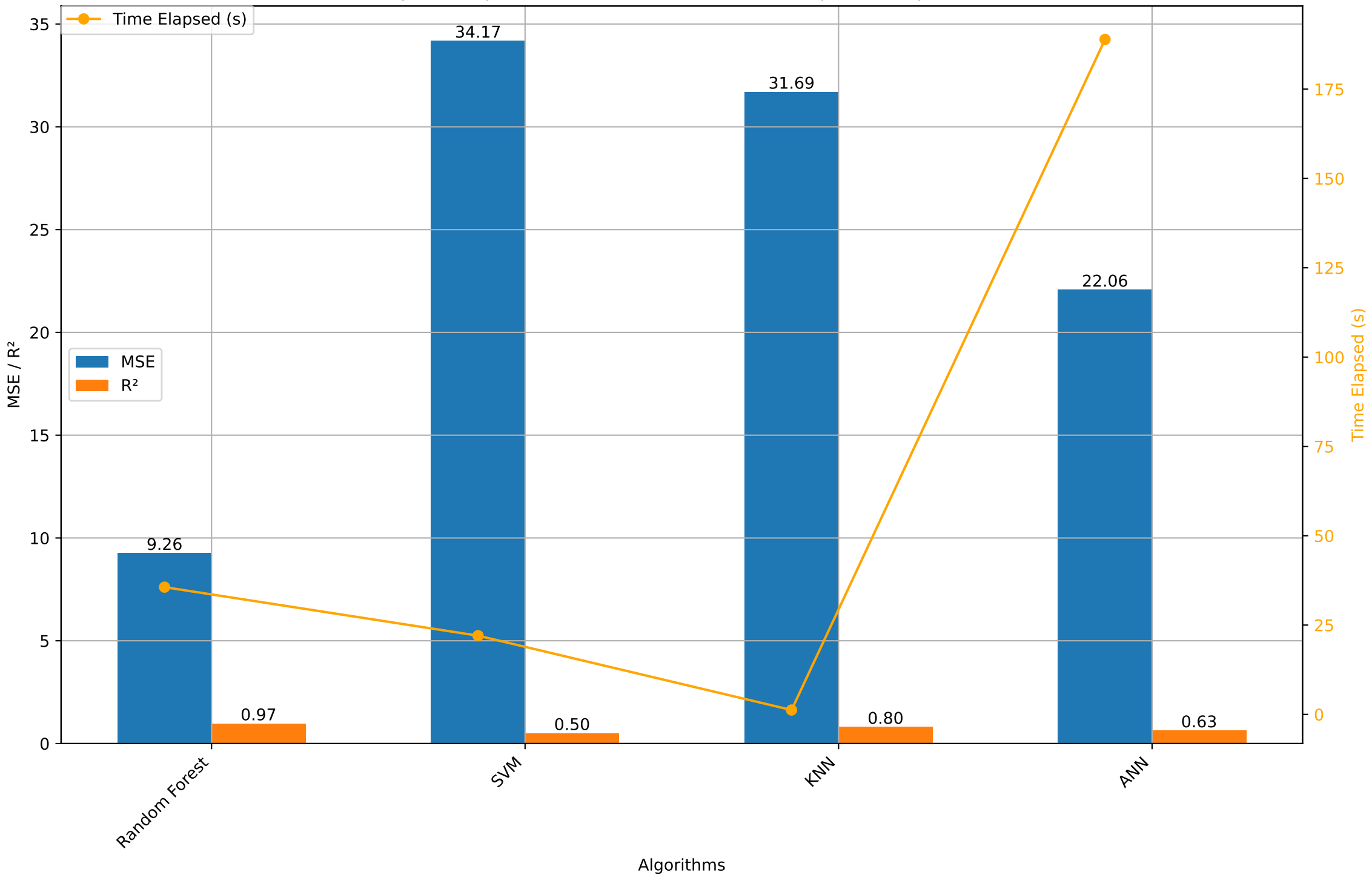


Random Search - MSE, R² and Time Elapsed Comparison

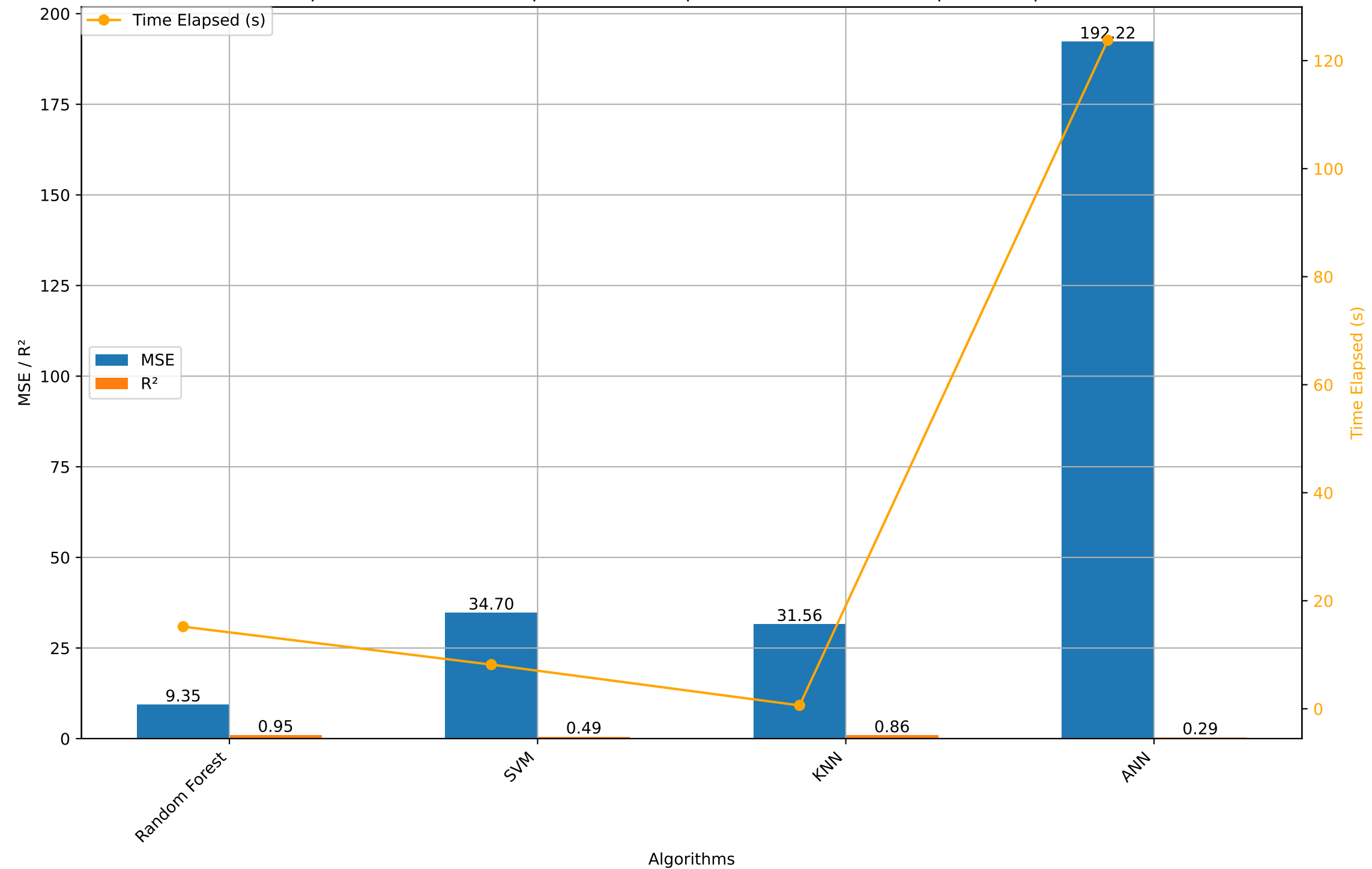


Hyperband - MSE, R² and Time Elapsed Comparison

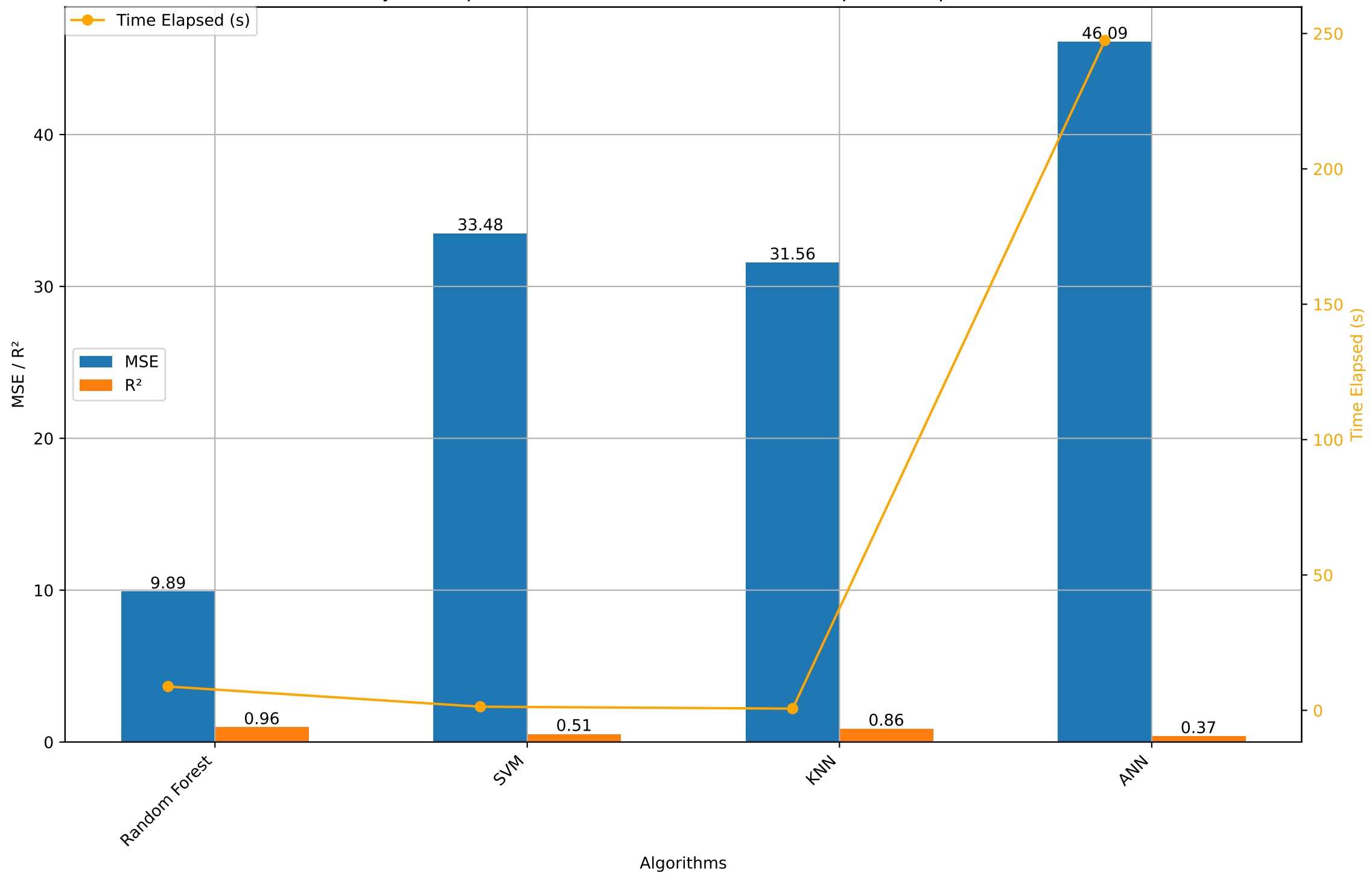
Bayesian Optimization - MSE, R² and Time Elapsed Comparison

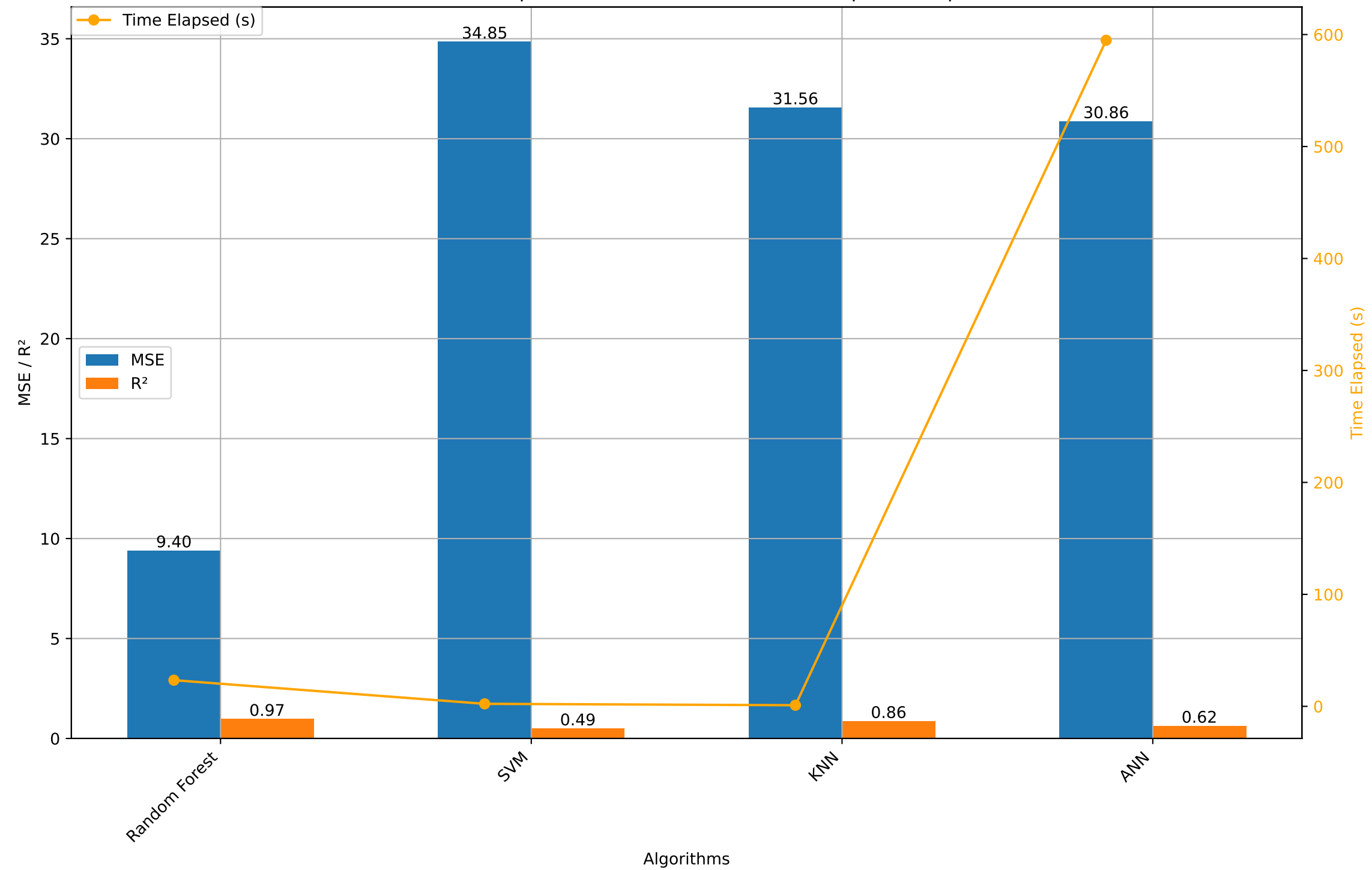


Sequential Model-Based Optimization (skopt) - MSE, R² and Time Elapsed Comparison

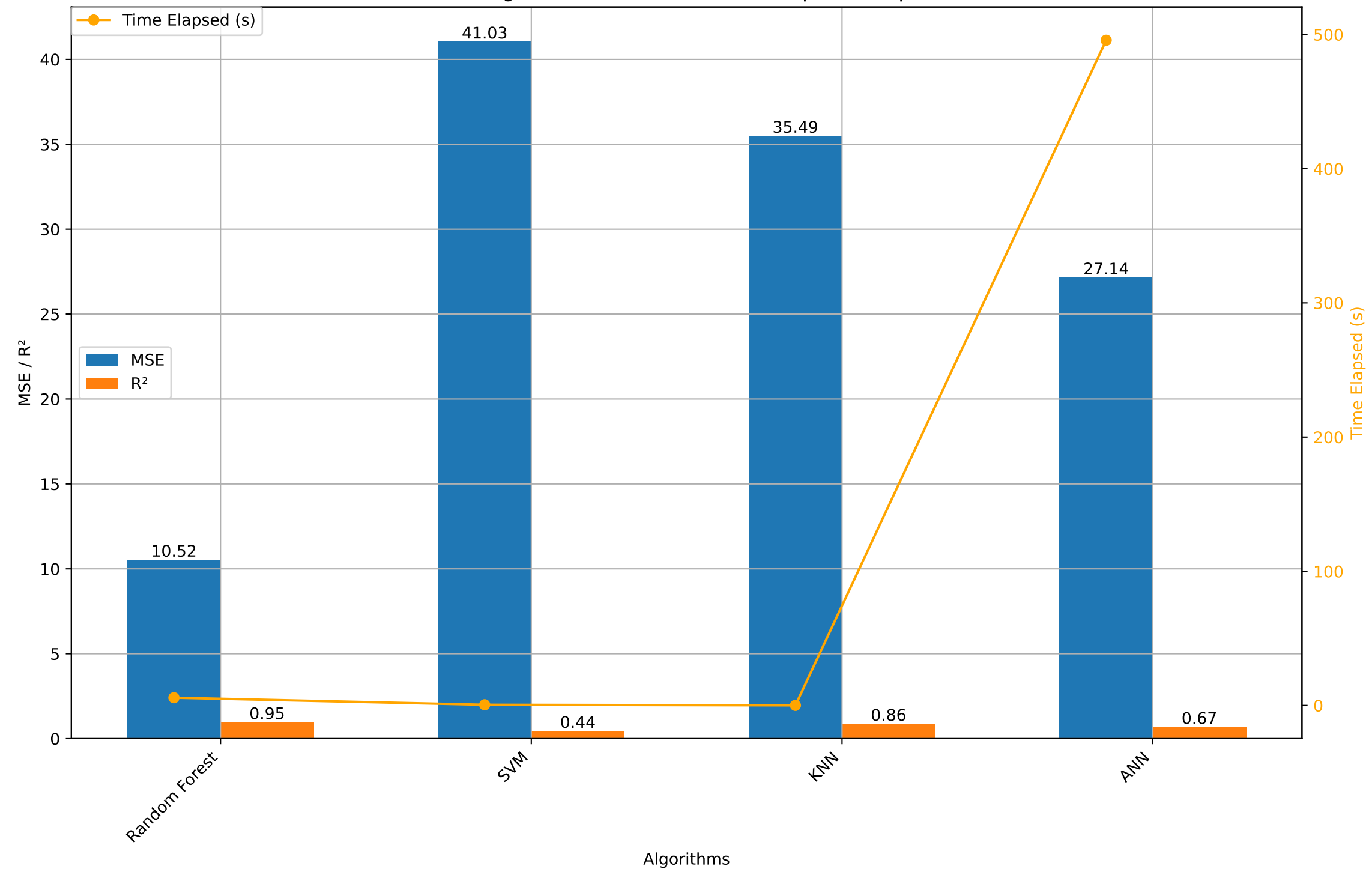


Bayesian Optimization TPE - MSE, R² and Time Elapsed Comparison

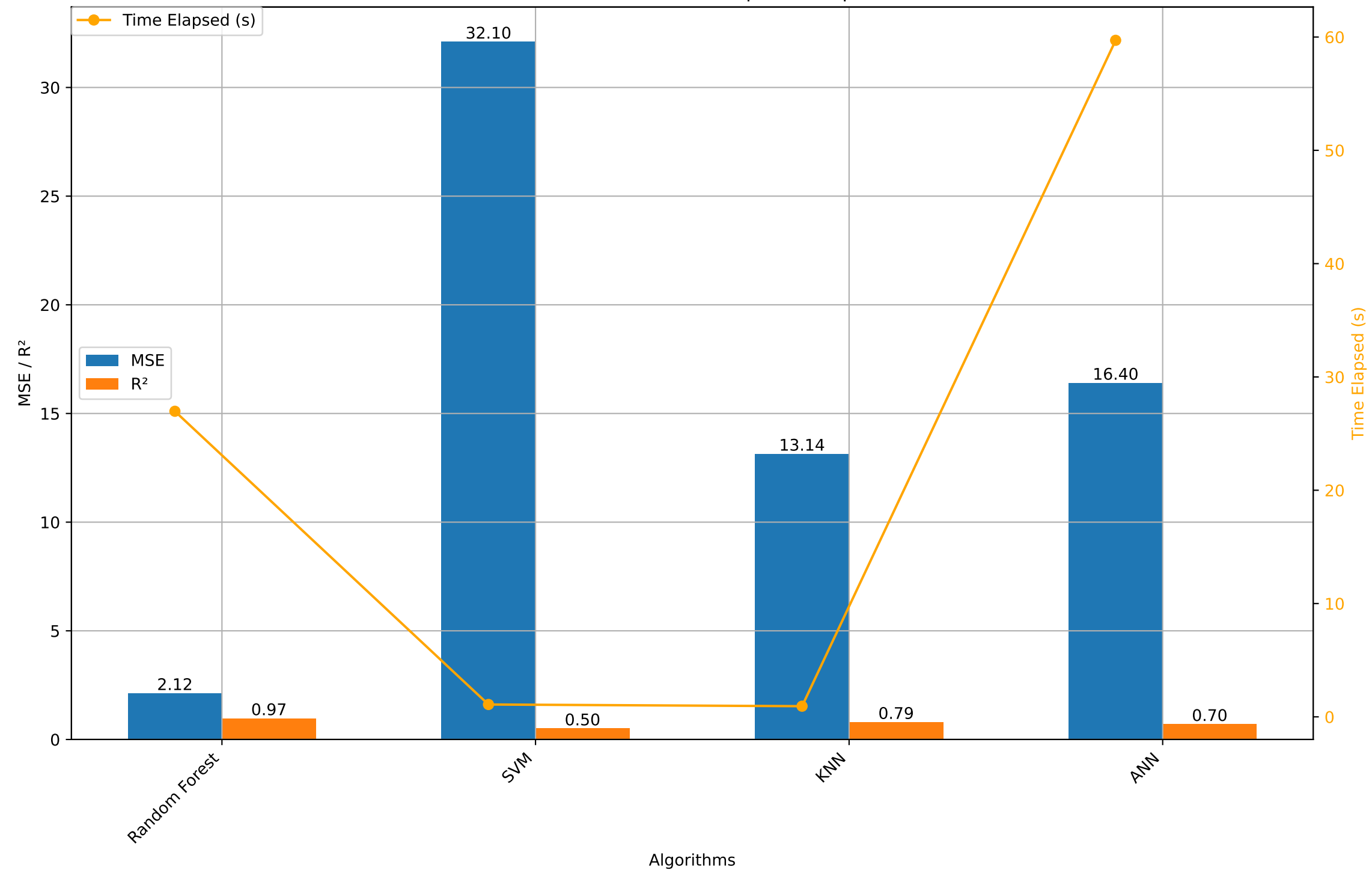


Particle Swarm Optimization - MSE, R² and Time Elapsed Comparison

Genetic Algorithm - MSE, R² and Time Elapsed Comparison



TPOT - MSE, R² and Time Elapsed Comparison



Best Algorithm and Procedure Summary:

Procedure	MSE Winner	MSE Value	R² Winner	R² Value	Time Winner	Time Elapsed (s)
3_fold_cross_validation	Random Forest	9.743809881048492	Random Forest	0.8436572877408187	KNN	0.03
Grid Search	Random Forest	9.59604706260027	Random Forest	0.9767812319249656	KNN	0.05
Random Search	Random Forest	9.139800544626617	Random Forest	0.9643172191390104	KNN	0.15
Hyperband	Random Forest	11.217054707281877	Random Forest	0.9770725190988452	KNN	1.0
Bayesian Optimization	Random Forest	9.257478102705855	Random Forest	0.9689868108136211	KNN	1.22
Sequential Model-Based Optimization (skopt)	Random Forest	9.349180846088457	Random Forest	0.9504184427139428	KNN	0.63
Bayesian Optimization TPE	Random Forest	9.894328473386128	Random Forest	0.9605671357084996	KNN	0.63
Particle Swarm Optimization	Random Forest	9.395483769434	Random Forest	0.9660751849922036	KNN	1.0
Genetic Algorithm	Random Forest	10.524349995282902	Random Forest	0.952858163435428	KNN	0.07
TPOT	Random Forest	2.12209102740317	Random Forest	0.9668520946354492	KNN	0.94

Overall Best Algorithm and Procedure:

Procedure	MSE Winner	MSE Value	R ² Winner	R ² Value	Time Winner	Time Elapsed (s)
Hyperband	Random Forest	11.217054707281877	Random Forest	0.9770725190988452	KNN	1.0