Name: David Adenij

Competition:	Sinkhole or Not				
Kaggle Username:	Shadowless Random Forest Classifier				
Best Performing Method:					
Optimized Parameter and Values Parameters Value min_samples_leaf 2 min_samples_split 3					
Parameters	Value				
min_samples_leaf	2				
min_samples_split	3				
n_estimators	400				
Max_depth	30				
bootstrap	False				
Criterion	entropy				
Summa	ary				

An hyperparameter tuning was applied on the default decision tree classifier and the optimized parameter values was tested on the data. The result was not quite a significant improvement on the baseline; therefore, a Random forest classifier was applied using an n-estimator = 100, max_depth = 9. The result was equal to that of the optimized decision tree and an hyperparameter tuning was subsequently performed. The resulting parameter values were used on the data, and I was able to get a significant improvement on the baseline.

			Kaggle Leaderboard					
			Public Leaderboard					
2	Fahmi	da Rahman		9	0.89810	12	1d	
3	ahwad	hal		9	0.89374	5	18h	
4	Shado	wless		9	0.89301	12	16h	
			Private Leaderboard					
8	^ 3	Connor Blandford			9	0.88958	11	2
9	▼ 2	Luke Ritchie			9	0.88927	5	17
10					9	0.88864	12	

My best kaggle public score was 0.89301 and 0.8864 on the private leaderboard