Machine Learning - Exoplanet Exploration
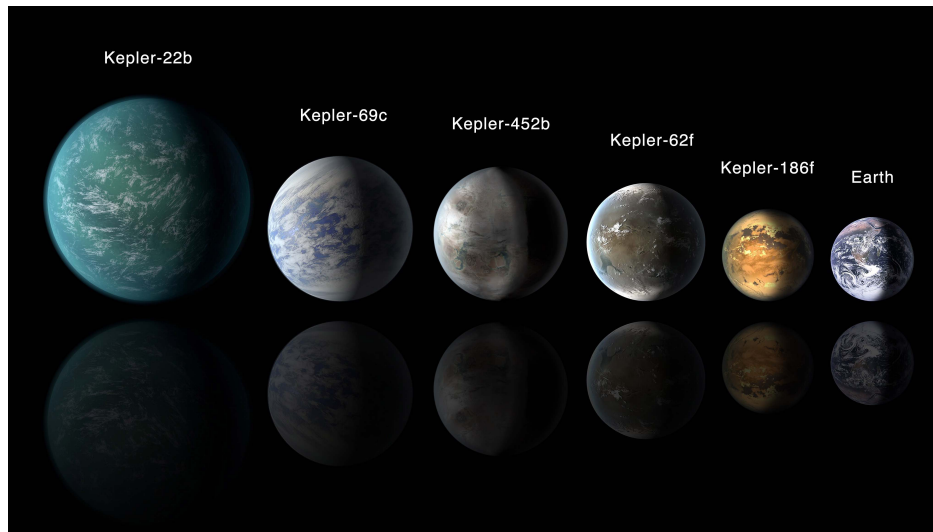
Summary:

Support Vector Machine

	Before Tuning	After Tuning
Training Score	0.850	0.878
Test Score	0.833	0.867

	precision	Recall	f1-score	Support
CANDIDATE	0.83	0.58	0.68	422
CONFIRMED	0.7	0.88	0.78	450
FALSE POSITIVE	0.99	1	0.99	876

accuracy			0.87	1748
macro avg	0.84	0.82	0.82	1748
weighted avg	0.87	0.87	0.86	1748

Random RainForest

	Before Tuning	After Tuning
Training Score	0.999	0.898
Test Score	0.891	0.867

	precision	Recall	f1-score	Support
CANDIDATE	0.83	0.70	0.76	422
CONFIRMED	0.77	0.86	0.81	450
FALSE POSITIVE	0.98	1.00	0.99	876
accuracy			0.89	1748
macro avg	0.86	0.85	0.85	1748
weighted avg	0.89	0.89	0.89	1748