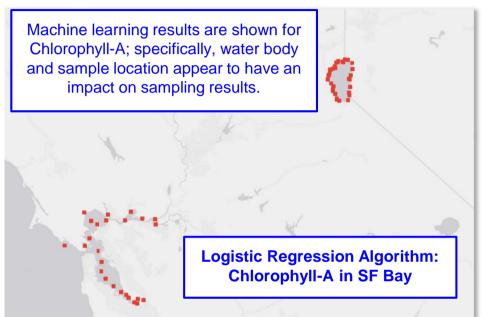


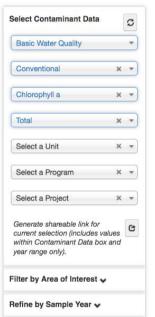
2018 SFEI RMP Data Visualization Challenge

Machine Learning Analysis of Nutrients in the SF Bay Author: Walter Yu

machine learning selfie DOWEr decision anomaly analytics forecasting churn linear & classification churn lir

Nutrients present in the SF Bay are linked to higher algae blooms and toxins which result in lower dissolved oxygen (DO), negative impacts to fish habitat and lower overall water quality; as a result, machine learning was used to identify other potential insights from nutrient monitoring data.





Feature	Score
	lm 1
huc8_name	0.208333
stationname	0.041667
county_name	0.020833
result	0
huc10_name	-0.020833
huc12_name	-0.041667

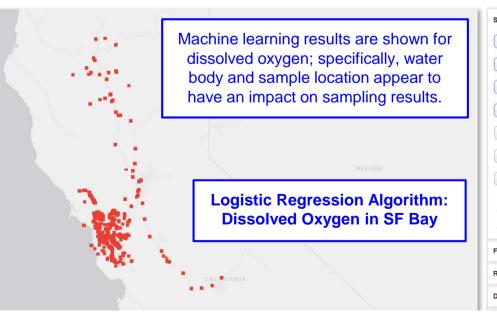
Metrics

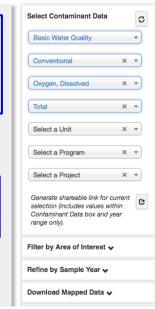
Overall accuracy	0.564885
Average accuracy	0.825954
Micro-averaged precision	0.564885
Macro-averaged precision	NaN
Micro-averaged recall	0.564885
Macro-averaged recall	0.262879

Metrics

Overall accuracy	0.782918
Average accuracy	0.891459
Micro-averaged precision	0.782918
Macro-averaged precision	NaN
Micro-averaged recall	0.782918
Macro-averaged recall	0.413686

Feature	Score
	la a
result	0.086022
huc8_name	0.026882
huc12_name	0.010753
huc10_name	0.005376
stationname	0
county_name	0





Github Repository: https://github.com/walteryu/sfei-rmp