

Stay in the Know: Powerful Data Quality **Tools and Alerts at Your Fingertips!** Alyssa Sockol, Ken Kehoe, Corey Godine, Mia Li, Randy Peppler CIWRO, University of Oklahoma



DQ-Explorer

• Visualizes ARM instrument data and QC information through plots and metrics tables





DQ-Plotbrowser

• Efficiently views plots generated by the DQO's python scripts through



The DQO and Machine Learning/Al

Iterative Error-Driven Ensemble Labeling (IEDEL) Extreme Imbalance Class Labeling







Figure 1. An illustrative process of Iterative Error-Driven Labeling (IEDL) algorithm. Shape and color legends of unlabeled, validated, and predicted data samples are shown in the upper right corner.









Figure 4. Clustering results for the last_baseline_B dataset from the datastream sgpaoscaps3wE13.b1, covering the period from January 1, 2017, to December 31, 2024.

Figure 5. Time Series Plots of Cluster 11 highlighted in Figure 4.