# Paper Validation Report for LADS

**Correspondence: No**
**Percentages: 40.0%**

**Conclusion:**

The repository code provides an AutoML pipeline for tabular ML tasks and utilities for running experiments with frameworks such as Fedot and LightAutoML, which aligns in a general sense with the paper's focus on machine learning models (EN, SVR, LGBM) for water quality prediction. However, crucial experimental details described in the paper—such as direct implementation of EN, SVR, and LGBM models, specialized data preprocessing and cleaning specific to dissolved oxygen prediction, SHAP feature importance analysis, and statistical/uncertainty analyses—are not directly implemented in the code base. The code is largely generic for tabular ML/AutoML and lacks scripts, benchmarks, or notebooks that specifically reproduce the results, figures, or metrics reported in the paper. Therefore, while the overall workflow is somewhat compatible, substantial elements for full reproducibility and method alignment are missing.