**Target: Active** Power

Data preprocessing:

1. Delete samples with missing values
2. Isolation Forest outlier detection
3. Data randomization
4. Data Normalization
5. 5-fold cross-validation
6. Models: Decision Tree Regression (DTR), Light gradient boosting regression (LGBR) and ADABoost regression (ADAR).
7. Optimizers: Crested Porcupine Optimizer (CPO) and Partial Reinforcement Optimizer (PRO).
8. Ensemble: DST for optimizers with models.
9. Metrics: R2-RMSE-RAE, n10index, and NSE.
10. Sensitivity Analysis: SHAP