

IoT25 Vertical ML Report

Vertical: AQ

Target Column: latitude | Task Type: regression

LinearRegression | Baseline: 0.000735558293154761, Tuned: N/A

Best Params: N/A

Time - Baseline: 0.00s, Tuned: N/A

RandomForestRegressor | Baseline: 0.01598244939859086, Tuned: 0.01638059967790276

Best Params: {'max_depth': 20, 'n_estimators': 100}

Time - Baseline: 6.04s, Tuned: 20.54s

XGBoostRegressor | Baseline: 0.014075143690638442, Tuned: 0.0009477536514939608

Best Params: {'learning_rate': 0.01, 'max_depth': 3, 'n_estimators': 100}

Time - Baseline: 0.21s, Tuned: 2.67s

Vertical: SL

Target Column: latitude | Task Type: regression

LinearRegression | Baseline: 0.0006786649062897543, Tuned: N/A

Best Params: N/A

Time - Baseline: 0.00s, Tuned: N/A

RandomForestRegressor | Baseline: 0.0043643529371480945, Tuned: 0.004304790032955538

Best Params: {'max_depth': 10, 'n_estimators': 100}

Time - Baseline: 2.16s, Tuned: 6.63s

XGBoostRegressor | Baseline: 0.00016011943652106952, Tuned: 0.0005124463134331133

Best Params: {'learning_rate': 0.01, 'max_depth': 3, 'n_estimators': 100}

Time - Baseline: 0.18s, Tuned: 2.27s

Vertical: WF

Target Column: latitude | Task Type: regression

LinearRegression | Baseline: 0.04295606575645083, Tuned: N/A

Best Params: N/A

Time - Baseline: 0.00s, Tuned: N/A

RandomForestRegressor | Baseline: 0.05706579235324906, Tuned: 0.05827933277481395

Best Params: {'max_depth': 20, 'n_estimators': 100}

Time - Baseline: 2.04s, Tuned: 6.15s

XGBoostRegressor | Baseline: 0.06761351524583695, Tuned: 0.04358613966897505

Best Params: {'learning_rate': 0.01, 'max_depth': 3, 'n_estimators': 100}

Time - Baseline: 0.14s, Tuned: 1.42s