Waste Management & Recycling - Model Report

Hackathon Project - Model Performance Summary

Date Generated: 2025-08-15 08:52:54
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Dataset Information:

Rows: 850

Columns: 50

Missing Values: 0

Model Evaluation Metrics:

LinearRegression: RMSE = 17.3203

RandomForest: RMSE = 17.3758

XGBoost: RMSE = 19.3053

LightGBM: RMSE = 19.3761

Best Model:

LinearRegression (RMSE = 17.3203)

Insights & Recommendations:

- Best model selected based on lowest RMSE.

- Can be deployed for waste volume prediction.

- Consider more feature engineering to improve accuracy.

- Use live IoT data for real-time waste monitoring.