

# Gradient Boosting Regressor Report

Dataset: Ames Housing Dataset

Author: Paul Adenigba

Model R2 Score: 0.92

*Generated on: 2025-07-07 19:49:30*

# Model Summary

Model Type: GradientBoostingRegressor

Hyperparameters:

- alpha: 0.9
- ccp\_alpha: 0.0
- criterion: friedman\_mse
- init: None
- learning\_rate: 0.04606959845943905
- loss: squared\_error
- max\_depth: 3
- max\_features: None
- max\_leaf\_nodes: None
- min\_impurity\_decrease: 0.0
- min\_samples\_leaf: 7
- min\_samples\_split: 5
- min\_weight\_fraction\_leaf: 0.0
- n\_estimators: 277
- n\_iter\_no\_change: None
- random\_state: None
- subsample: 1.0
- tol: 0.0001
- validation\_fraction: 0.1
- verbose: 0
- warm\_start: False



### Sale Price Density vs Predictions(Test Data)



