**XGBoosting-Regression Algorithm**

**XGBoosting Algorithm**:

With default loss = ‘***squared\_error’*** GradientBoostingRegressor(), we got r\_score = 0.88422

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **loss** | **learning\_rate** | **n\_estimators** | **subsample** | R value |
| 1 | ***absolute\_error*** | 2.0 | 200 | 0.2 | -111867053424367.17 |
| 2 | ***absolute\_error*** | 5.0 | 300 | 0.5 | -inf |
| 3 | ***absolute\_error*** | 7.0 | 310 | 0.7 | -inf |
| 4 | ***huber*** | 2.0 | 200 | 0.2 | -1.152824633263917e+32 |
| 5 | ***huber*** | 5.0 | 300 | 0.5 | -inf |
| 6 | ***huber*** | 7.0 | 310 | 0.7 | -inf |
| 7 | ***quantile*** | 2.0 | 200 | 0.2 | -508109609775150.3 |
| 8 | ***quantile*** | 5.0 | 300 | 0.5 | -inf |
| 9 | ***quantile*** | 7.0 | 310 | 0.7 | -inf |

Using GradientBoostingRegressor, with default values, we got high accuracy as 0.88422

**\*\*\* Thank you, mam. \*\*\***