**LG Boosting Regression:**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **LG Boosting Regression Parameter** | **Result** |
| 1 | regressor = LGBMRegressor() | 0.8619152049112627 |
| 2 | regressor = LGBMRegressor(n\_estimators=200) | 0.8520790602551306 |
| 3 | regressor = LGBMRegressor(learning\_rate=0.05) | 0.8706378192874861 |
| 4 | regressor = LGBMRegressor(max\_depth=7) | 0.8708560218367889 |
| 5 | regressor = LGBMRegressor(reg\_alpha=0.1) | 0.8618102676196799 |
| 6 | regressor = LGBMRegressor(reg\_lambda=0.5) | 0.8652925458728553 |
| 7 | regressor = LGBMRegressor(subsample=0.8) | 0.8619152049112627 |
| 8 | regressor = LGBMRegressor(colsample\_bytree=0.8) | 0.8630336544490225 |
| 9 | regressor = LGBMRegressor(min\_child\_samples=20) | 0.8619152049112627 |
| 10 | regressor = LGBMRegressor(device='gpu') | 0.8620849196051568 |
| 11 | regressor = LGBMRegressor(num\_leaves=31, max\_depth=5) | 0.8763258582433269 |
| 12 | regressor = LGBMRegressor(n\_estimators=1000, learning\_rate=0.01) | 0.8622045464073215 |
| 13 | regressor = LGBMRegressor(random\_state=42) | 0.8619152049112627 |
| 14 | regressor = LGBMRegressor(n\_estimators=300, colsample\_bytree=0.6, subsample=0.9) | 0.8459917559228715 |
| 15 | regressor = LGBMRegressor(num\_leaves=50, learning\_rate=0.03) | 0.8620285949199112 |