**LGBoosting-Regression Algorithm**

**LGBoosting Algorithm**:

With default boosting\_type = ‘***gbdt’*** LGBMRegressor(), we got r\_score = 0.86603

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **boosting\_type** | **num\_leaves** | **max\_depth** | **n\_estimators** | R value |
| 1 | ***gbdt*** | 41 | 1 | 200 | 0.79471 |
| 2 | ***gbdt*** | 51 | 2 | 300 | 0.88975 |
| 3 | ***gbdt*** | 61 | 3 | 400 | 0.88165 |
| 4 | ***gbdt*** | 71 | 4 | 500 | 0.86878 |
| 5 | ***gbdt*** | 81 | 5 | 600 | 0.85531 |
| 6 | ***dart*** | 41 | 1 | 200 | 0.76172 |
| 7 | ***dart*** | 51 | 2 | 300 | 0.89368 |
| 8 | ***dart*** | 61 | 3 | 400 | 0.89264 |
| 9 | ***dart*** | 71 | 4 | 500 | 0.88321 |
| 10 | ***dart*** | 81 | 5 | 600 | 0.87526 |

Using LGBMRegressor(boosting\_type='dart', max\_depth=2, n\_estimators=300,

num\_leaves=51) got high accuracy as 0.89368

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