

## Comparison of Performance metric $R^2$ of different models

| <i>Model Name</i>                  | <i>Hyperparameters</i> | <i><math>R^2</math> Score</i> | <i>Fit Time</i> |
|------------------------------------|------------------------|-------------------------------|-----------------|
| <i>OLS Linear Regression</i>       |                        |                               |                 |
| DE                                 |                        | 0.957                         | 0.015           |
| SF6                                |                        | 0.815                         | 0.0009          |
| OOG                                |                        | 0.775                         | 0.0009          |
| LDC                                |                        | 0.999                         | 0.0009          |
| <i>Random Forest</i>               |                        |                               |                 |
| DE                                 | n_estimators = 1       | 0.999                         | 0.090           |
| SF6                                | n_estimators = 1       | 0.999                         | 0.005           |
| OOG                                | n_estimators = 1       | 0.999                         | 0.006           |
| LDC                                | n_estimators = 1       | 0.999                         | 0.005           |
| <i>Multioutput Ridge Regressor</i> |                        |                               |                 |
| DE                                 |                        | 1.0                           | 0.018           |
| SF6                                |                        | 0.999                         | 0.008           |
| OOG                                |                        | 0.999                         | 0.007           |
| LDC                                |                        | 0.999                         | 0.008           |
| <i>Multioutput RF Regressor</i>    |                        |                               |                 |
| DE                                 | n_estimators = 1       | 1.0                           | 0.52            |
| SF6                                | n_estimators = 1       | 0.999                         | 0.05            |
| OOG                                | n_estimators = 1       | 0.999                         | 0.07            |
| LDC                                | n_estimators = 1       | 0.999                         | 0.06            |