Hyper Tuning parameter

Support Vector Regression.

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| S.no | C | kernel | gamma | Output |

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| --- | --- | --- | --- | --- |
| 1 | 1000 | rbf | *scale* | 0.67 |

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| --- | --- | --- | --- | --- |
| 2 | 100 | rbf | *scale* | -0.05 |

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| --- | --- | --- | --- | --- |
| 3 | 1000 | rbf | *auto* | 0.67 |
| 4 | 1000 | linear | *scale* | 0.78 |
| 5 | 100 | linear | *scale* | 0.10 |
| 6 | 1000 | linear | *auto* | 0.78 |
| 7 | 1000 | poly | *scale* | 0.26 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 8 | 100 | poly | *scale* | -0.01 |
| 9 | 1000 | poly | *auto* | 0.26 |
| 10 | 1000 | sigmoid | *scale* | 0.18 |
| 11 | 100 | sigmoid | *scale* | -0.03 |
| 12 | 1000 | sigmoid | *auto* | 0.18 |
|  |  |  |  |  |

Decision tree regressor.

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| --- | --- | --- | --- | --- |
| S.no | criterion | splitter | max\_features | output |
| 1 | friedman\_mse | random | None | 0.87 |
| 2 | friedman\_mse | random | sqrt | 0.72 |
| 3 | friedman\_mse | best | log2 | 0.56 |
| 4 | friedman\_mse | best | sqrt | 0.75 |
| 5 | friedman\_mse | random | log2 | -0.66 |
| 6 | squared\_error | random | None | 0.57 |
| 7 | squared\_error | random | sqrt | 0.79 |
| 8 | squared\_error | random | log2 | 0.83 |
| 9 | squared\_error | best | sqrt | -0.61 |

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| --- | --- | --- | --- | --- |
| 10 | squared\_error | best | log2 | -0.30 |
| 11 | absolute\_error | random | None | 0.92 |
| 12 | absolute\_error | random | sqrt | 0.21 |
| 13 | absolute\_error | random | log2 | 0.68 |
| 14 | absolute\_error | best | sqrt | 0.94 |
| 15 | absolute\_error | best | log2 | 0.93 |

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| --- | --- | --- | --- | --- |
| 16 | poisson | random | None | 0.82 |
| 17 | poisson | random | sqrt | 0.34 |
| 18 | poisson | random | log2 | 0.57 |
| 19 | poisson | best | sqrt | 0.80 |
| 20 | poisson | best | log2 | 0.90 |