**模型拟合效果对比表(Auto MPG数据集)**

**Comparison table of model fitting effect (Auto MPG Data Set)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **数据处理方法** | | **线性回归** | **决策树** | **随机森林** | **支持向量机** | **K近邻** | **Adaboost** | **Bagging** |
| **不引入哑变量** | **不处理** | 0.3435 | 0.1689 | 0.3387 | 0.2917 | 0.4393 | 0.2182 | 0.1622 |
| **正态化** | **0.3307** | 0.1691 | 0.6614 | **0.2583** | 0.3457 | 0.2569 | 0.1842 |
| **标准化** | 0.3435 | 0.1810 | 0.3416 | 0.2917 | **0.2800** | 0.2387 | 0.1812 |
| **归一化** | 0.3435 | 0.1751 | 0.5798 | **0.2583** | 0.3960 | 0.2063 | 0.1714 |
| **正标** | **0.3307** | 0.1698 | **0.3087** | **0.2583** | 0.2883 | 0.2339 | 0.1813 |
| **正归** | **0.3307** | 0.1765 | 0.3436 | 0.3083 | 0.2907 | 0.2384 | 0.2003 |
| **标归** | 0.3435 | 0.1704 | 0.5798 | 0.2750 | 0.3960 | 0.2431 | 0.1917 |
| **归标** | 0.3435 | 0.1626 | 0.3416 | **0.2583** | **0.2800** | 0.2560 | 0.1687 |
| **正标归** | **0.3307** | 0.1684 | 0.3436 | 0.2667 | 0.2907 | **0.1968** | 0.2028 |
| **正归标** | **0.3307** | **0.1619** | **0.3087** | 0.2750 | 0.2883 | 0.2439 | **0.1530** |
| **引入哑变量** | **不处理** | **0.3371** | 0.1702 | 0.3392 | **0.2333** | 0.4393 | **0.2179** | 0.2024 |
| **正态化** | 0.3391 | **0.1655** | 0.6640 | 0.2583 | 0.3447 | 0.2451 | 0.2167 |
| **标准化** | **0.3371** | 0.1662 | 0.3351 | 0.2750 | **0.2843** | 0.2288 | 0.2015 |
| **归一化** | **0.3371** | 0.1787 | 0.3714 | 0.2750 | 0.3730 | 0.2660 | 0.1900 |
| **正标** | 0.3391 | 0.1676 | **0.3072** | 0.2667 | 0.2877 | 0.2385 | 0.1830 |
| **正归** | 0.3391 | 0.1750 | 0.3359 | 0.2667 | 0.2913 | 0.2345 | 0.1717 |
| **标归** | **0.3371** | 0.1700 | 0.3714 | 0.2750 | 0.3730 | 0.2269 | 0.1860 |
| **归标** | **0.3371** | 0.1676 | 0.3351 | 0.2417 | **0.2843** | 0.2570 | 0.2132 |
| **正标归** | 0.3391 | 0.1796 | 0.3359 | 0.2917 | 0.2913 | 0.2280 | **0.1658** |
| **正归标** | 0.3391 | 0.1686 | **0.3072** | 0.4393 | 0.2877 | 0.2288 | 0.2163 |