| 2]: | data   | csv("50_Startups  |  | 6.   |  |                                       |                  |                  |              |  |
|-----|--|---|--|--|--|---------------------------------------|------------------|------------------|--------------|--|
|     | <ul><li>0 165349.20</li><li>1 162597.70</li><li>2 153441.51</li></ul>  | 136897.80<br>151377.59<br>101145.55   | 471784.10 Ne<br>443898.53 Ca<br>407934.54  | State Proficew York 192261.83 alifornia 191792.06 Florida 191050.39  | 3  |                                       |                  |                  |              |  |
|     | 3 144372.41<br>4 142107.34<br>5 131876.90<br>6 134615.46   | 118671.85<br>91391.77<br>99814.71<br>147198.87  | 383199.62 Ne<br>366168.42<br>362861.36 Ne  | ew York 182901.99 Florida 166187.94 ew York 156991.12 alifornia 156122.53  | 1  |                                       |                  |                  |              |  |
|     | <ul> <li>7 130298.13</li> <li>8 120542.52</li> <li>9 123334.88</li> <li>10 101913.08</li> </ul>  | 145530.06<br>148718.95<br>108679.17<br>110594.11  | 311613.29 No<br>304981.62 Ca   | Florida 155752.60<br>ew York 152211.77<br>alifornia 149759.90<br>Florida 146121.95   | 3  |                                       |                  |                  |              |  |
|     | <ol> <li>11 100671.96</li> <li>12 93863.75</li> <li>13 91992.39</li> <li>14 119943.24</li> </ol>   | 91790.61<br>127320.38<br>135495.07<br>156547.42   | 249839.44<br>252664.93 Ca  | alifornia 144259.40<br>Florida 141585.52<br>alifornia 134307.35<br>Florida 132602.65   | 2  |                                       |                  |                  |              |  |
|     | <ul><li>15 114523.61</li><li>16 78013.11</li><li>17 94657.16</li></ul>   | 122616.84<br>121597.55<br>145077.58   | 261776.23 Ne<br>264346.06 Ca<br>282574.31 Ne   | ew York 129917.04<br>alifornia 126992.93<br>ew York 125370.33  | 3  |                                       |                  |                  |              |  |
|     | <ol> <li>91749.16</li> <li>86419.70</li> <li>76253.86</li> <li>78389.47</li> </ol>   | 114175.79<br>153514.11<br>113867.30<br>153773.43  | 0.00 Ne<br>298664.47 Ca<br>299737.29 Ne  | Florida 124266.90<br>ew York 122776.86<br>alifornia 118474.03<br>ew York 111313.02   |  |                                       |                  |                  |              |  |
|     | <ul> <li>73994.56</li> <li>67532.53</li> <li>77044.01</li> <li>64664.71</li> </ul>   | 122782.75<br>105751.03<br>99281.34<br>139553.16   | 304768.73<br>140574.81 Ne  | Florida 110352.25<br>Florida 108733.99<br>ew York 108552.04<br>alifornia 107404.34   | 1  |                                       |                  |                  |              |  |
|     | 26 75328.87<br>27 72107.60<br>28 66051.52<br>29 65605.48   | 144135.98<br>127864.55<br>182645.56<br>153032.06  | 353183.81 Ne   | Florida 105733.54<br>ew York 105008.33<br>Florida 103282.38<br>ew York 101004.64   | 3  |                                       |                  |                  |              |  |
|     | <ul><li>30 61994.48</li><li>31 61136.38</li><li>32 63408.86</li></ul>  | 115641.28<br>152701.92<br>129219.61   | 91131.24<br>88218.23 Ne<br>46085.25 Ca   | Florida 99937.59<br>ew York 97483.56<br>alifornia 97427.84   | )<br>5   |                                       |                  |                  |              |  |
|     | <ul> <li>33 55493.95</li> <li>34 46426.07</li> <li>35 46014.02</li> <li>36 28663.76</li> </ul>   | 103057.49<br>157693.92<br>85047.44<br>127056.21   | 210797.67 Ca<br>205517.64 Ne   |  |  |                                       |                  |                  |              |  |
|     | <ul> <li>37 44069.95</li> <li>38 20229.59</li> <li>39 38558.51</li> <li>40 28754.33</li> </ul>   | 51283.14<br>65947.93<br>82982.09<br>118546.05   | 197029.42 Ca<br>185265.10 Ne<br>174999.30 Ca<br>172795.67 Ca   | ew York 81229.06<br>alifornia 81005.76   | 5  |                                       |                  |                  |              |  |
|     | <ul> <li>41 27892.92</li> <li>42 23640.93</li> <li>43 15505.73</li> <li>44 22177.74</li> </ul>   | 84710.77<br>96189.63<br>127382.30<br>154806.14  | 164470.71<br>148001.11 Ca<br>35534.17 Ne<br>28334.72 Ca  | ew York 69758.98   | 3  |                                       |                  |                  |              |  |
|     | 45 1000.23<br>46 1315.46<br>47 0.00<br>48 542.05   | 124153.04<br>115816.21<br>135426.92<br>51743.15   | 1903.93 Ne<br>297114.46<br>0.00 Ca<br>0.00 Ne  | Florida 49490.75<br>alifornia 42559.73   | 3  |                                       |                  |                  |              |  |
|     | #checking null data.isnull().  | 116983.80   |  | alifornia 14681.40   |  |                                       |                  |                  |              |  |
|     | R&D Spend Administration Marketing Spend State Profit dtype: int64   |   |  |  |  |                                       |                  |                  |              |  |
| :   | #sorting data  | <i>by statewise in</i><br>ata.sort_values(  |  |  |  | e data                                |                  |                  |              |  |
|     | R&D Spend A 49 0.00 42 23640.93 40 28754.33  | 116983.80<br>96189.63<br>118546.05  | 45173.06 Ca<br>148001.11 Ca<br>172795.67 Ca  | alifornia 71498.49   |  |                                       |                  |                  |              |  |
|     | <ul> <li>34 46426.07</li> <li>16 78013.11</li> <li>44 22177.74</li> <li>25 64664.71</li> </ul>   | 157693.92<br>121597.55<br>154806.14<br>139553.16  | 28334.72 Ca  | alifornia 96712.80<br>alifornia 126992.93<br>alifornia 65200.33<br>alifornia 107404.34   | 3  |                                       |                  |                  |              |  |
|     | <ul><li>13 91992.39</li><li>11 100671.96</li><li>20 76253.86</li></ul>   | 135495.07<br>91790.61<br>113867.30  | 252664.93 Ca<br>249744.55 Ca<br>298664.47 Ca   | alifornia 134307.35<br>alifornia 144259.40<br>alifornia 118474.03  | 3  |                                       |                  |                  |              |  |
|     | 39 38558.51<br>6 134615.46<br>37 44069.95<br>32 63408.86<br>47 0.00  | 82982.09<br>147198.87<br>51283.14<br>129219.61<br>135426.92   | 197029.42 Ca   | alifornia 156122.53<br>alifornia 89949.14<br>alifornia 97427.84  |  |                                       |                  |                  |              |  |
|     | <ul> <li>47 0.00</li> <li>1 162597.70</li> <li>9 123334.88</li> <li>28 66051.52</li> </ul>   | 135426.92<br>151377.59<br>108679.17<br>182645.56  | 304981.62 Ca   | alifornia 191792.06<br>alifornia 149759.96<br>Florida 103282.38  | 5  |                                       |                  |                  |              |  |
|     | <ul> <li>75328.87</li> <li>61994.48</li> <li>55493.95</li> <li>67532.53</li> </ul>   | 144135.98<br>115641.28<br>103057.49<br>105751.03  | 134050.07<br>91131.24<br>214634.81   | Florida 105733.54<br>Florida 99937.59<br>Florida 96778.92<br>Florida 108733.99   | 1  |                                       |                  |                  |              |  |
|     | 36 28663.76<br>41 27892.92<br>18 91749.16<br>14 119943.24  | 103751.03<br>127056.21<br>84710.77<br>114175.79<br>156547.42  | 201126.82<br>164470.71<br>294919.57  | Florida 90708.19 Florida 77798.83 Florida 124266.90 Florida 132602.65  | 3  |                                       |                  |                  |              |  |
|     | 12 93863.75<br>10 101913.08<br>7 130298.13   | 127320.38<br>110594.11<br>145530.06   | 249839.44<br>229160.95<br>323876.68  | Florida 141585.52<br>Florida 146121.95<br>Florida 155752.60  | 5  |                                       |                  |                  |              |  |
|     | <ul> <li>46 1315.46</li> <li>4 142107.34</li> <li>2 153441.51</li> <li>22 73994.56</li> </ul>  | 115816.21<br>91391.77<br>101145.55<br>122782.75   | 366168.42<br>407934.54<br>303319.26  | Florida 49490.75 Florida 166187.94 Florida 191050.39 Florida 110352.25   | 1<br>)<br>5  |                                       |                  |                  |              |  |
|     | 45 1000.23<br>38 20229.59<br>43 15505.73<br>0 165349.20  | 124153.04<br>65947.93<br>127382.30<br>136897.80   | 185265.10 No<br>35534.17 No<br>471784.10 No  | ew York 69758.98<br>ew York 192261.83  | 3  |                                       |                  |                  |              |  |
|     | 31 61136.38<br>29 65605.48<br>27 72107.60<br>48 542.05   | 152701.92<br>153032.06<br>127864.55<br>51743.15   | 107138.38 Ne<br>353183.81 Ne<br>0.00 Ne  | ew York 97483.56<br>ew York 101004.64<br>ew York 105008.33<br>ew York 35673.43   |  |                                       |                  |                  |              |  |
|     | 21 78389.47<br>19 86419.70<br>17 94657.16<br>15 114523.61  | 153773.43<br>153514.11<br>145077.58<br>122616.84  | 0.00 Ne<br>282574.31 Ne<br>261776.23 Ne  | ew York 111313.02<br>ew York 122776.86<br>ew York 125370.33<br>ew York 129917.04   | 5<br>7   |                                       |                  |                  |              |  |
|     | <ul> <li>8 120542.52</li> <li>5 131876.90</li> <li>3 144372.41</li> <li>35 46014.02</li> </ul>   | 148718.95<br>99814.71<br>118671.85<br>85047.44  | 362861.36 Ne<br>383199.62 Ne<br>205517.64 Ne   | ew York 152211.77<br>ew York 156991.12<br>ew York 182901.99<br>ew York 96479.53  |  |                                       |                  |                  |              |  |
| :   |  | 99281.34  action of pandas c_dummies(sorted   | s to get the   |  |  | catinating sorted (                   | data and dummy d | data             |              |  |
|     | California         Flo           49         1           42         1   | Orida New York  0 0  0 0  |  |  |  |                                       |                  |                  |              |  |
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|     | 39 1<br>6 1<br>37 1  | 0 0<br>0 0<br>0 0   |  |  |  |                                       |                  |                  |              |  |
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|     | 28 0<br>26 0<br>30 0   | 1 0<br>1 0<br>1 0<br>1 0  |  |  |  |                                       |                  |                  |              |  |
|     | 23 0<br>36 0<br>41 0<br>18 0   | 1 0<br>1 0<br>1 0<br>1 0  |  |  |  |                                       |                  |                  |              |  |
|     | 14 0<br>12 0<br>10 0   | 1 0<br>1 0<br>1 0   |  |  |  |                                       |                  |                  |              |  |
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|     | 22   | 1   | eting Spend  45173.06  148001.11  172795.67  264346.06  28334.72  137962.62  252664.93  249744.55  298664.47  17499.30  127716.82  134050.07  91131.24  214634.81  304768.73  201126.82  164470.71  294919.57  256512.92  249839.44  229160.95  323876.68  297114.46  366168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  107138.38  108319.26  1903.93  185265.10  88218.23  107138.38  106168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  106168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  106168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  107138   | State Profit alifornia 14681.40 alifornia 71498.49 alifornia 96712.80 alifornia 126992.93 alifornia 134307.38 alifornia 134307.38 alifornia 134307.38 alifornia 144259.40 alifornia 18474.03 alifornia 18474.03 alifornia 18474.03 alifornia 18474.03 alifornia 18474.03 alifornia 194759.96 alifornia 19486.96 alifornia 19486. | California   Florida   | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | k(drping to use  | the one hot code | or function) |  |
|     | 22   | 1   | eting Spend  45173.06  148001.11  172795.67  264346.06  28334.72  137962.62  252664.93  249744.55  298664.47  17499.30  127716.82  134050.07  91131.24  214634.81  304768.73  201126.82  164470.71  294919.57  256512.92  249839.44  229160.95  323876.68  297114.46  366168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  107138.38  108319.26  1903.93  185265.10  88218.23  107138.38  106168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  106168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  106168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  107138   | State Profit alifornia 14681.40 alifornia 71498.45 alifornia 78239.91 alifornia 96712.80 alifornia 126992.93 alifornia 126992.93 alifornia 134307.35 alifornia 144259.40 alifornia 144259.40 alifornia 144259.40 alifornia 156122.51 alifornia 197427.84 alifornia 197427.85 alifornia 197427.85 alifornia 197427.86 alifornia 197427.87 alifornia 197427.88 alifornia 197427.88 alifornia 197427.89 alifornia 197427. | California   Florida   | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | k(drping to use  | the one hot code | or function) |  |
|     | 24   | 1   | eting Spend  45173.06  148001.11  172795.67  210797.67  264346.06  28334.72  137962.62  252664.93  249744.55  298664.47  174999.30  127716.82  197029.42  46085.25  0.00  443898.53  304981.62  134050.07  91131.24  214634.81  304768.73  201126.82  164470.71  294919.57  256512.92  249839.44  229160.95  323876.68  297114.46  366168.42  407934.54  303319.26  1903.93  185265.10  88218.23  107138.38  107138.38  1000  282574.31  88218.23  107138.38  1000  282574.31  88218.23  107138.38   | State Profit alifornia 14681.40 alifornia 71498.45 alifornia 78239.91 alifornia 96712.80 alifornia 126992.93 alifornia 126992.93 alifornia 107404.34 alifornia 134307.35 alifornia 134307.35 alifornia 134307.35 alifornia 18474.05 alifornia 18474.05 alifornia 18474.05 alifornia 18474.05 alifornia 18474.05 alifornia 194759.96 alifornia 19485.55 alifornia 19485.55 alifornia 19485.55 alifornia 19485.55 alifornia 19485.55 alifornia 19486.96 alifornia 19486.96 alifornia 19486.96 alifornia 19486.96 alifornia 19486.96 alifornia 19486.96 alifornia 19489.97 alifornia 19489.96 alifornia 19489.99 a | California   Florida   | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | k(drping to use  | the one hot code | or function) |  |
|     | 22   | 1   | eting Spend  45173.06  | State         Profit alifornia         14681.40 alifornia         71498.48 alifornia         71498.48 alifornia         96712.80 alifornia         96712.80 alifornia         96712.80 alifornia         96712.80 alifornia         126992.93 alifornia         165200.33 alifornia         107404.34 alifornia         118474.03 alifornia         184075.76 alifornia         81005.76 alifornia         81005.76 alifornia         89949.14 alifornia         97427.84 alifornia         97427.84 alifornia         97427.84 alifornia         97427.84 alifornia         97427.84 alifornia         19792.06 alifornia         19792.06 alifornia         19792.06 alifornia         19792.06 alifornia         19792.06 alifornia         19792.06 alifornia         197798.83 alifornia  | California Florida  Califo | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | k(drping to use  | the one hot code | er function) |  |
|     | 22   0.0   34   30   30   30   30   30   30   3  | 1   | eting Spend         Assistance           45173.06         Ca           148001.11         Ca           210797.67         Ca           264346.06         Ca           28334.72         Ca           137962.62         Ca           298664.47         Ca           174999.30         Ca           127716.82         Ca           46085.25         Ca           304981.62         Ca           443898.53         Ca           304981.62         Ca           18148.20         Ca           18148.21         Ca           18131.24         Ca           214634.81         Ca           304768.73         Ca           216776.83         Ca           32876.68         Ca     <  | State         Profit           alifornia         14681.40           alifornia         71498.45           alifornia         96712.80           alifornia         126992.93           alifornia         126992.93           alifornia         107404.34           alifornia         134307.35           alifornia         118474.03           alifornia         118474.03           alifornia         118474.03           alifornia         118474.03           alifornia         118474.03           alifornia         126122.53           alifornia         126122.53           alifornia         149759.96           alifornia         149759.96           alifornia         149759.96           alifornia         149759.96           Florida         103282.38           Florida         103733.54           Florida         108733.93           Florida         108733.93           Florida         124266.90           Florida         14581.29           Florida         146121.93           Florida         146121.93           Florida         146121.93           Florida<  | California   Florida   | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | k(drping to use  | the one hot code | or function) |  |
|     |  | 1   0   0   0   0   0   0   0   0   0   | eting Spend         Attraction         Catering Spend           45173.06         Catering Spend         Catering Spend           172795.67         Catering Spend         Catering Spend           264346.06         Catering Spend         Catering Spend           252664.93         Catering Spend         Catering Spend           249744.55         Catering Spend         Catering Spend           44085.25         Catering Spend         Catering Spend           443898.53         Catering Spend         Catering Spend           443898.53         Catering Spend         Catering Spend           134050.07         Catering Spend         Catering Spend           244839.44         Catering Spend         Catering Spend           2494839.44         Catering Spend         Catering Spend           2494839.44         Catering Spend         Catering Spend           249714.46         Catering Spend         Catering Spend           249739.57         Catering Spend         Catering Spend           240734.54         Catering Spend         Catering Spend           240734.54         Catering Spend         Catering Spend           240738.54         Catering Spend         Catering Spend           240748.55         Catering Spend <td>State Profit alifornia 14681.44 (alifornia 71498.45 (alifornia 78239.91 (alifornia 126992.93 (alifornia 126992.93 (alifornia 134307.35 (alifornia 149759.96 (alifornia 149759.96</td> <td>  California   Florida                                      </td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>k(drping to use</td> <td>the one hot code</td> <td>r function)</td> <td></td> | State Profit alifornia 14681.44 (alifornia 71498.45 (alifornia 78239.91 (alifornia 126992.93 (alifornia 126992.93 (alifornia 134307.35 (alifornia 149759.96  | California   Florida   | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | k(drping to use  | the one hot code | r function)  |  |
|     |  | 1   | eting Spend  45173.06  | State         Profit           alifornia         14681.44           alifornia         71498.45           alifornia         72239.93           alifornia         96712.80           alifornia         126992.93           alifornia         134307.33           alifornia         118474.03           alifornia         118474.03           alifornia         118474.03           alifornia         13612.25           alifornia         97427.84           alifornia         149759.93           alifornia         149759.93           alifornia         149759.93           alifornia         149759.93           alifornia         149759.93           alifornia         103282.33           alifornia         103733.54           Florida         103733.54           Florida         108733.93           Florida         108733.93           Florida         141585.52           Alforida         149490.75           Florida         146121.93           Florida         146121.93           Florida         191050.33           Florida         191050.33           Alevyork<  | California   Florida   | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |                  | the one hot code | r function)  |  |

In [15]:

#Accuracy of model:model.score(x,y)

Out[15]: 0.9507524843355148