Dummy Variable Trap

R&D Spend Marketing Profit Admin State 192,261.83 165,349.20 136,897.80 471,784.10 New York 162,597.70 151,377.59 191,792.06 California 443,898.53 191,050.39 101,145.55 407,934.54 California 153,441.51 182.901.99 144,372.41 118,671.85 383,199.62 New York 166,187.94 91,391.77 California 142,107.34 366,168.42

Dummy Variables

New York	California
7	0
0	7
0	7
7	0
0	٦

$$y = b_0 + b_1^* x_1 + b_2^* x_2 + b_3^* x_3 + b_4^* D_1 + b_5^* D_2$$

Always omit one dummy variable