

PS8

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1 Regression Table

[[1]]

Call: lm(formula = Y ~ X - 1)

Coefficients: X1 X2 X3 X4 X5 X6 1.5006 -0.9956 -0.2486 0.7472 3.5018 -1.9994 X7 X8 X9 X10
0.5011 0.9987 1.2528 1.9994

1.1 Beta

The estimated coefficients of are very close to the "ground truth" values of beta that we used to create the data in (1). This is an indication that the linear regression model is able to recover the underlying relationship between X and Y. The small differences are likely due to the presence of noise in the data.