

Linear Regression Assignment.

Linear regression models have many real-world applications in an array of industries such as economics (e.g. predicting growth), business (e.g. predicting product sales, employee performance), social science (e.g. predicting political leanings from gender or race), healthcare (e.g. predicting blood pressure levels from weight, disease onset from biological factors), and more.

You will be using a very popular **advertising** dataset about various costs incurred on advertising by different mediums and the sales for a particular product. You can download this dataset <https://modcom.co.ke/flask/ML/>

	TV	Radio	Newspaper	Sales
0	230.1	37.8	69.2	22.1
1	44.5	39.3	45.1	10.4
2	17.2	45.9	69.3	9.3
3	151.5	41.3	58.5	18.5
4	180.8	10.8	58.4	12.9

You will only be look at the TV variable — You are required will explore whether TV advertising spending can predict the number of sales for the product.

Test Case

If we increase TV advertising costs to \$400, we can predict that sales will increase to 26 units: