Scalars And Vectors

1) Physics 2) Maths 3) Computer Science of Data Science

Detn: Scalar:

A Scalar is a single humanical Value. It represents a magnitude or quantity and has no direction.

En: Car Speed = 45 Km/hr - Magnitude Temperature in Celsium T = Lr°c

Application in Data Science

Dataset: Count of the Total No of Records = 5 Average of the france f1 = -

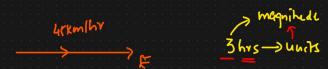
Simple Linear Regrection =) y=mnt c> intercept

4 Slope > Scalar value

2) Verby: Numerical Vadec which has both magnitude And Direction.

A vector is an ordered list of numbers. It can represent a point in space Or quantity with both magnitude and direction.

Eg: Speed of the Car is 45km/hr and is moving Toward East Direction



Ensume: Student marks

→ [90 3hrs] Pass/Fail

Fails

A vector representing person Ia and no of = [90, 3hrs] Shidy

 f_2 f_3

Adure Effect =) (A2 =) Brown Up

(0.10)

(3.13)