ML-7

Tensors

it is a data structure . it is basically a container for numbers. vectors or matrix are tensors.

OD tensor/ Scalar

whenever we are storing a single number . These are basically called scalers or we can call them 0D tensor.

OD tensor means that it has O dimension.

ML-7

1D tensor / vector

if the dimension is one . we can say it as 1 dimensional tensors.

1D tensor→ vector vector→ 4 dimensions

2D tensor

Rank, Axis and shape

Rank is the no. of dimensions which is equal to the no. of axis .

Rank=Axis=no. of dim

shape gives the number of rows and columns in the tensor.

size of tensor=no. of rows * no. of columns

ML-7 4