Terminology:- (Commonly used Terms in Machine Learning)

Accuracy:-

Used to evaluate any Classification Model.

$$\text{Accuracy} = \frac{\text{Number of Correct Predictions}}{\text{Number of total Prediction}}$$

Algorithm:-

Procedure applied to the data to Create a Machine learning Model

Annotation:-

Unlabeled Process of assigning labels to the data.

ex:- Handwritten digit recognition task.

Artificial Neural Networks (ANN):-

It is a machine learning algorithm inspired by biological neural networks they Constitute animal brain cells.

Attribute:-

If we talk about the structured data and store the values in the values in a tabular format, the columns represent Attribute.

Model:-

It is the output of any ML algorithm run on data.

Weight Space:-

(i) This space has one dimension per weight
(ii) A point in the space represents a particular setting of all the weights.
(iii) Assuming that we have eliminated the threshold, each training case can be represented as a hyperplane through the origin.

- The weights must be on one side of this hyper-plane to get the answer correct.

Each training case defines a plane (shown as a black line)

- The plane goes through the origin and is perpendicular to the input vector
- On one side of the plane the output is wrong because the scalar product of the weight vector with the input vector has the wrong sign.