

The Radial Basic Function Algorithm :-

- Position the RBF centres by either,
 - Using the K-means algorithm to initialise the positions of the RBF centres or
 - setting the RBF centres to be randomly chosen datapoints.
- Calculate the actions of the RBF nodes using the equation below.
- Train the output weights by either,
 - Using the perceptron or,
 - computing the pseudo inverse of the activations of the RBF centres.

$$g(x, w, \sigma) = \exp\left(-\frac{\|x - w\|^2}{2\sigma^2}\right)$$

• The final layer of RBF don't use activation function, it rather linearly combine the outputs of previous neurons.

• There is only one hidden layer in RBF and one output layer. And the final have only one layer.