

Multi Layer Perceptron

Algorithm implementation

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TalentSprint - WE program

What is a perceptron ?

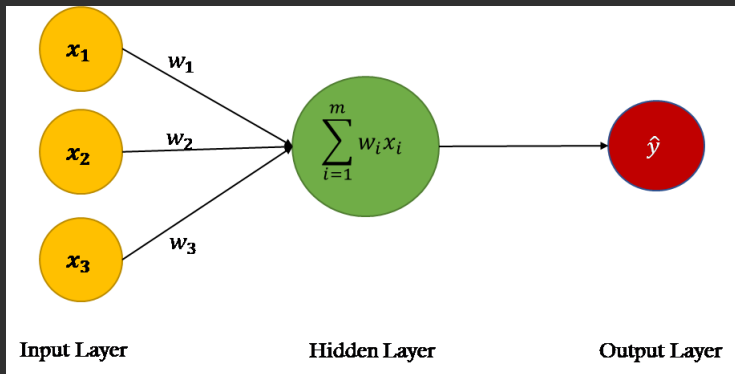


Figure: Single layer perceptron

Operations required

- Initialization
- Forward Propagation
- Backward Propagation

Initialization

- Input
- Output
- Weights
- Biases

Forward Propagation

- Linear transformation
- Activation function
- Predict the output

Backward Propagation

- Calculate Gradient of error
- Compute change factor
- Update weights
- Update biases

Work done today

- Initialization
- Forward propagation
 - Linear Transformation
 - Activation function
 - Sigmoid or Logistic
 - Tanh - Hyperbolic tangent
 - ReLu - Rectified linear units
 - Generation of output

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Thank You