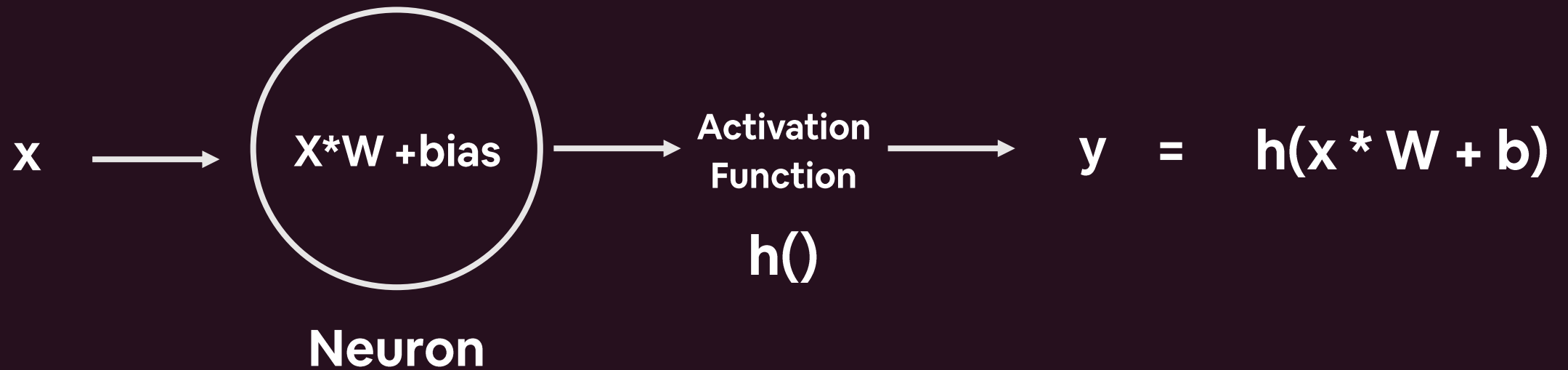


Visualize NN

Practical Insights



$h()$ can be any linear or non-linear function


$$X*W + \text{bias}$$

W and X are Tensors


$$\mathbf{X} * \mathbf{W}$$

W and X are Tensors

Tensors are like nd-array



$X * W$

W and X are Tensors

Tensors are like nd-array

W and X are nd-arrays



$X*W$

W and X are Tensors

Tensors are like nd-array

W and X are nd-arrays

$X * W$

Matrix Multiplication

Trust me!

W and X are Tensors

Tensors are like nd-array

W and X are nd-arrays

$X * W$

Matrix Multiplication

$X*W$

=

**Linear
Transformation
of X**

Linear Transformation of X

- Scale
- Rotate
- Reflection
- Shear
- Transform

$$X*W$$

Linear Transformation of X

- Scale
- Rotate
- Reflection
- Shear
- Transform

PRACTICALS