

# Neural Network Architecture: Building Intelligence in Layers

## INPUT LAYER

(Market Features)

Interest Rate



Volatility Index



Market Sentiment



Trading Volume



Yesterday Price



## HIDDEN LAYER

(Pattern Detection)



## OUTPUT LAYER

(Prediction)



Weights  $W^{(1)}$

Weights  $W^{(2)}$

Price Direction

Network Summary:  
5 Inputs  
6 Hidden Neurons  
1 Output  
Total Weights: 36

Information Flow

Each connection has a WEIGHT  
Each neuron applies ACTIVATION FUNCTION