

# 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)

Weights  $W^{(1)}$

Weights  $W^{(2)}$

## OUTPUT LAYER

(Prediction)

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