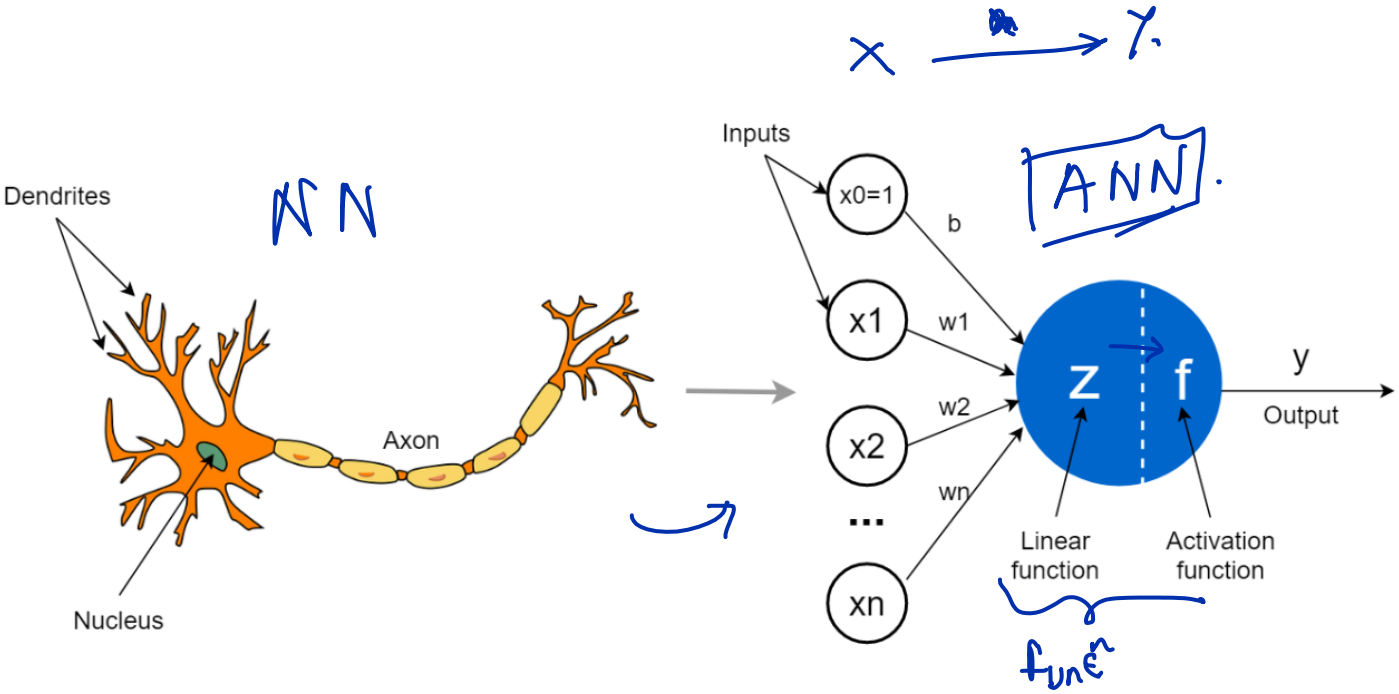
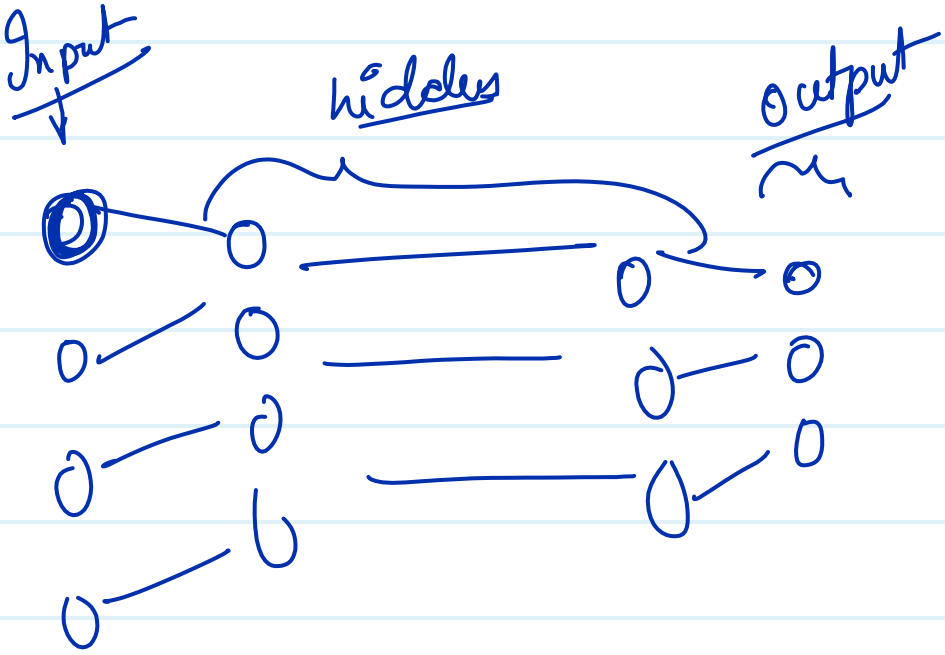


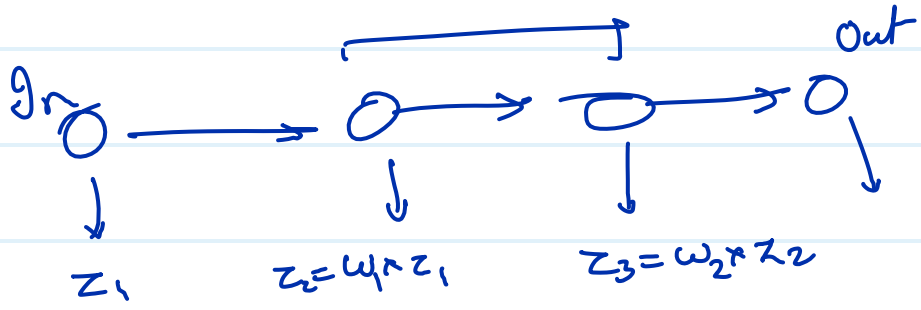


- weights
- biases.
- activation func^n

$x \rightarrow af\left[(\omega \times x_1) + b\right]$

learning

Activation function ← Non linearity.

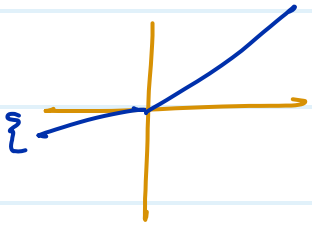


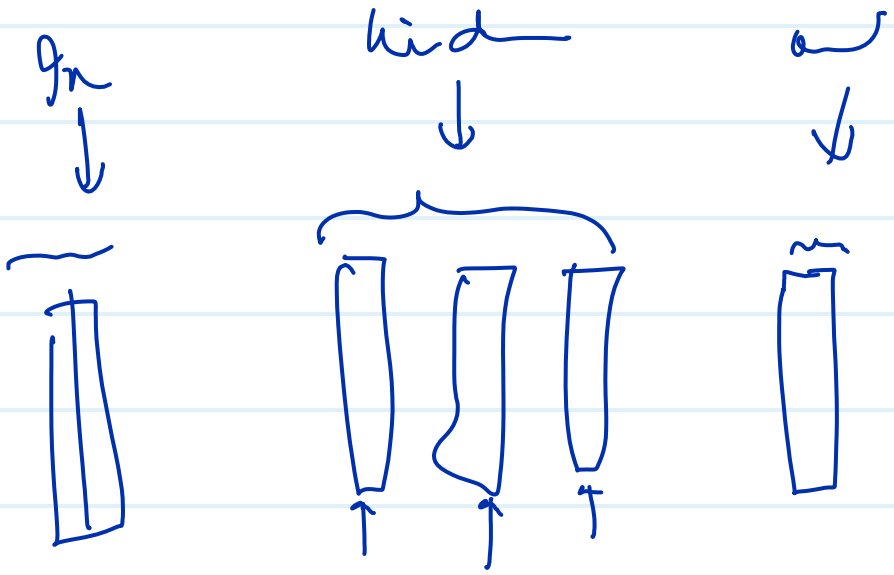
1) Sigmoid → Binary → (0, 1) → Binary.

2) Tanh → (-1, 1) → Shallow NN

* 3) ReLU → max(0, x) → $\frac{d}{dx} \times \frac{d}{dx} \times \frac{d}{a}$ ... (0.001)

4) Leaky ReLU →





1. Dense → Normal → Refines your Weights.

2. Dropout →  ← 0.2 → Helps in overfitting.

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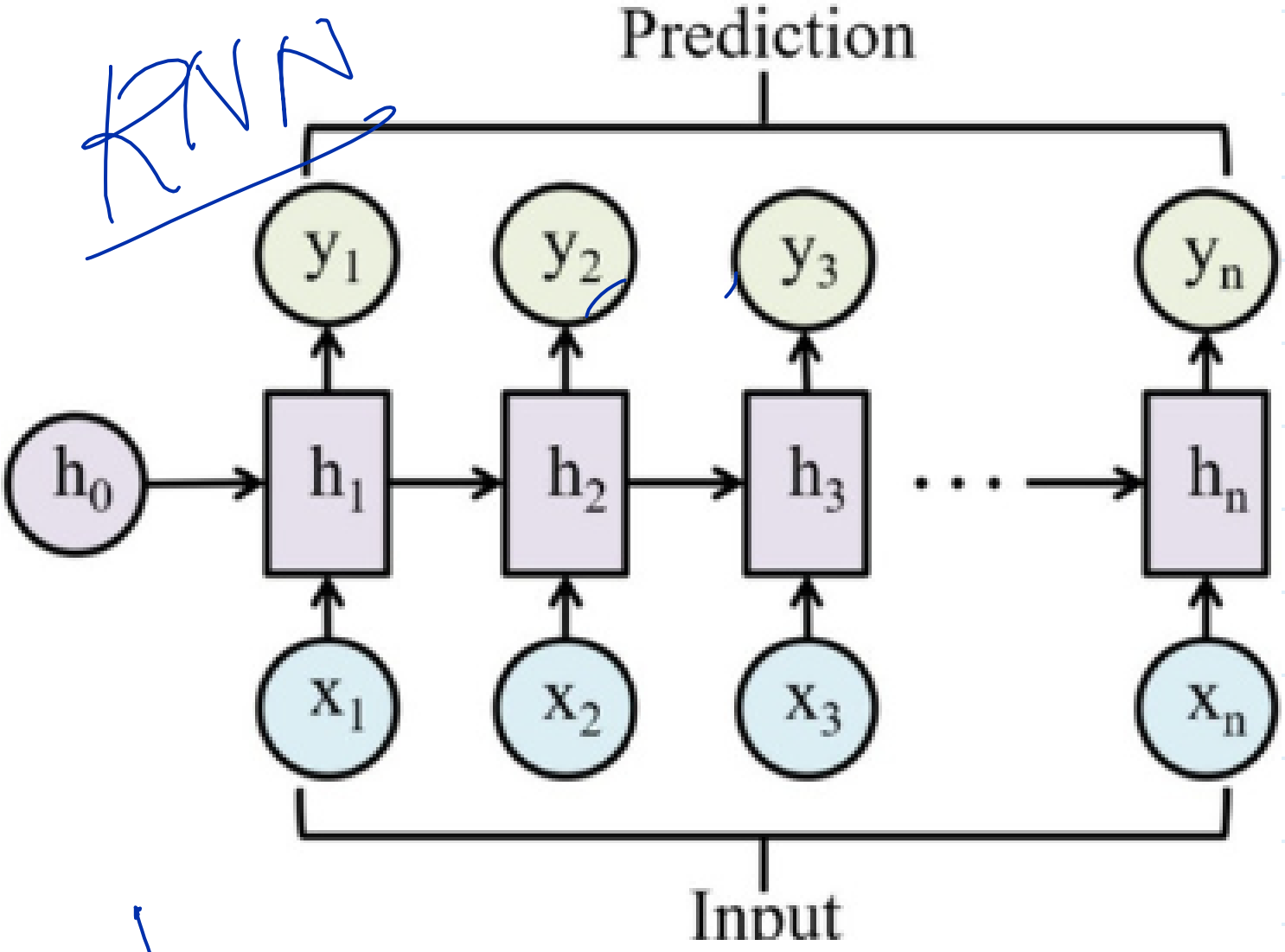
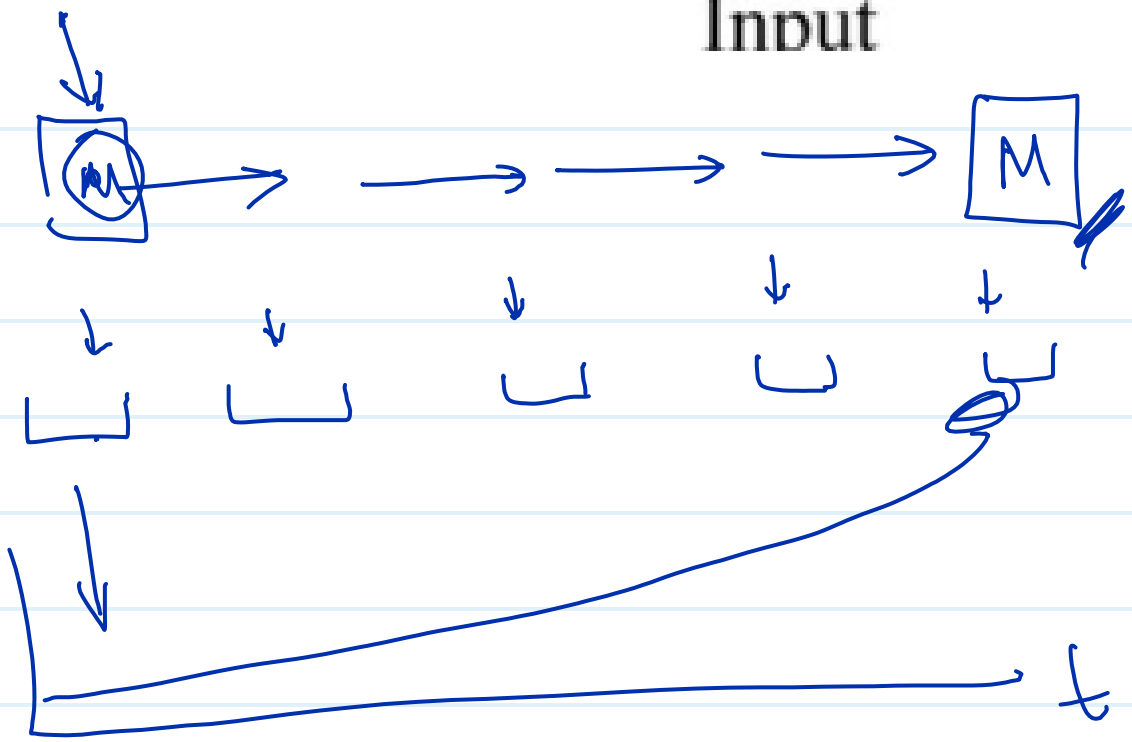
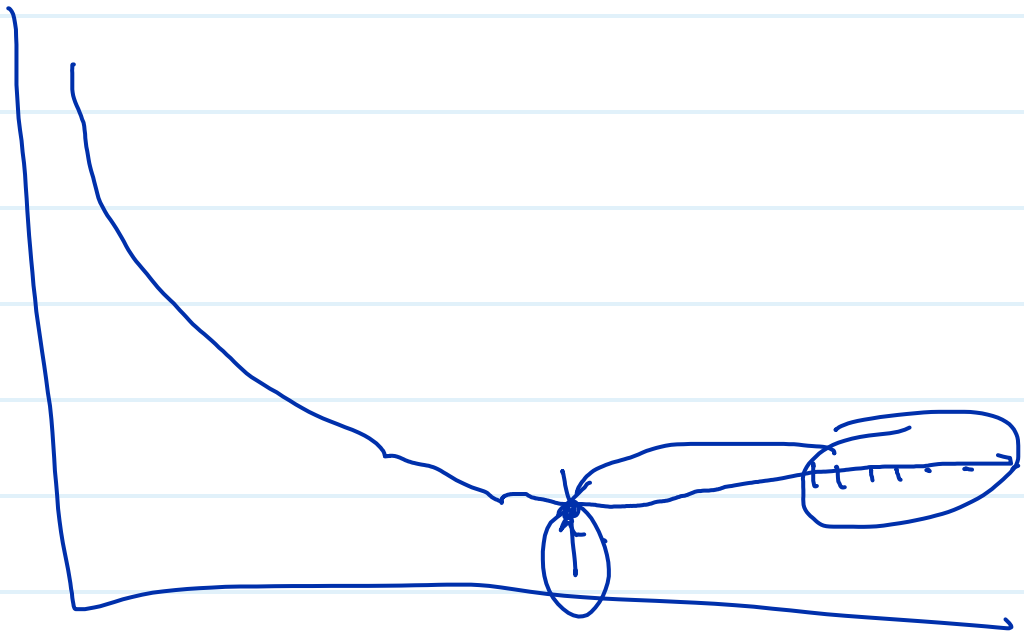
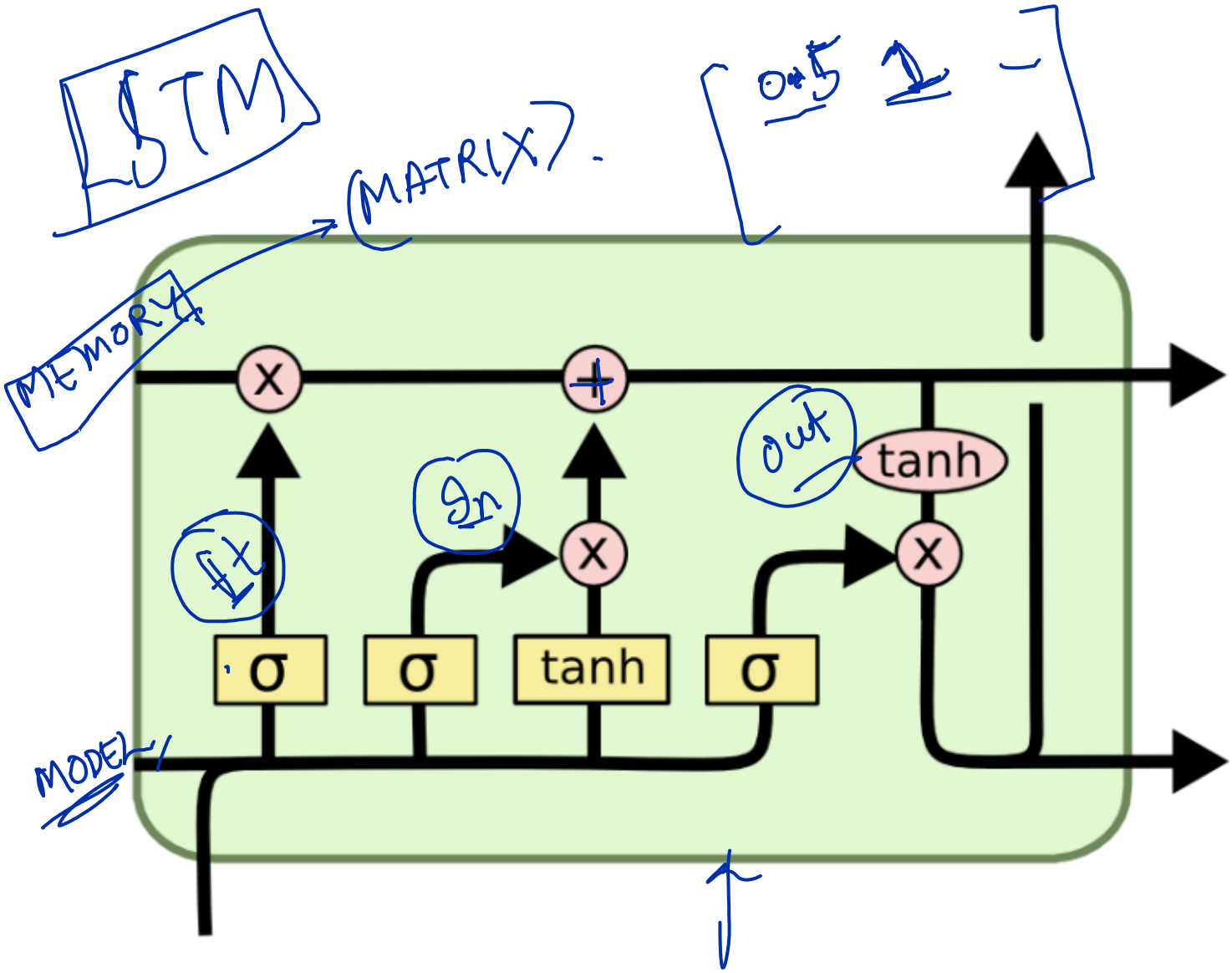
728 → $2^{3} \rightarrow 2^{n}$.


RNN
Prediction
y_1
y_2
y_3
y_n
h_0
h_1
h_2
h_3
h_n
x_1
x_2
x_3
x_n
Input


M
t.




LSTM
(MATRIX).
MEMORY
MODEL
X
+
tanh
σ
σ
tanh
σ
X
X