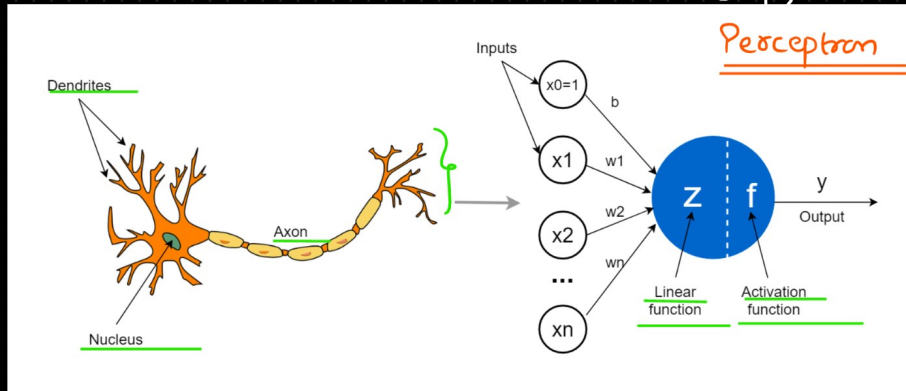


Neural Network & it's type

Normalisation & Standardization
(to be in some specific range)

MinMax Scaler

Standard Scaler

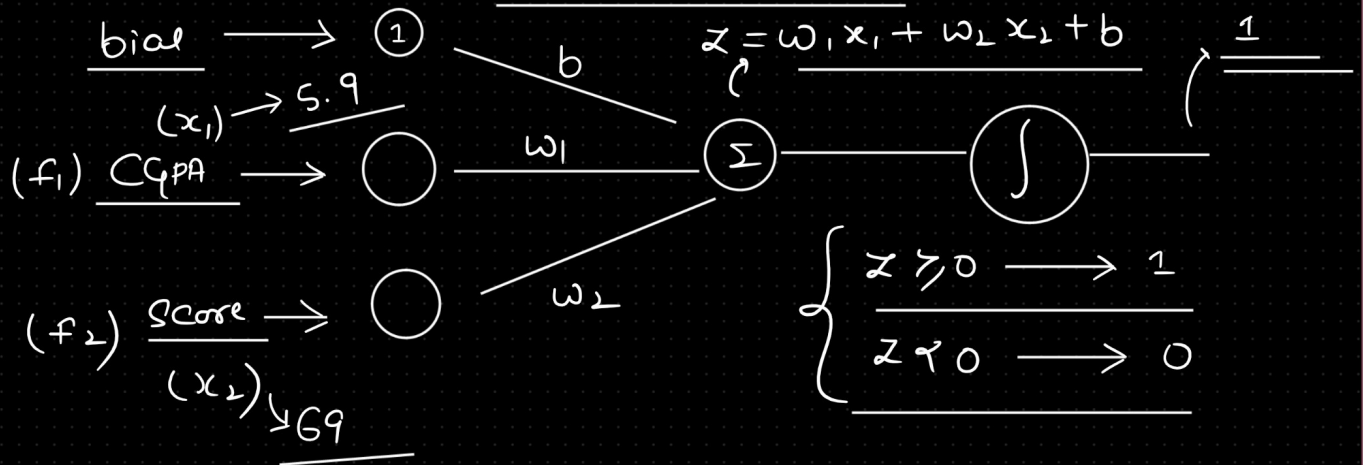


① feedforward Neural Network → Classification & Regression

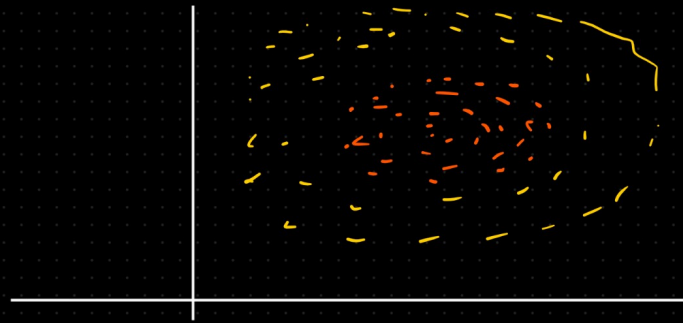
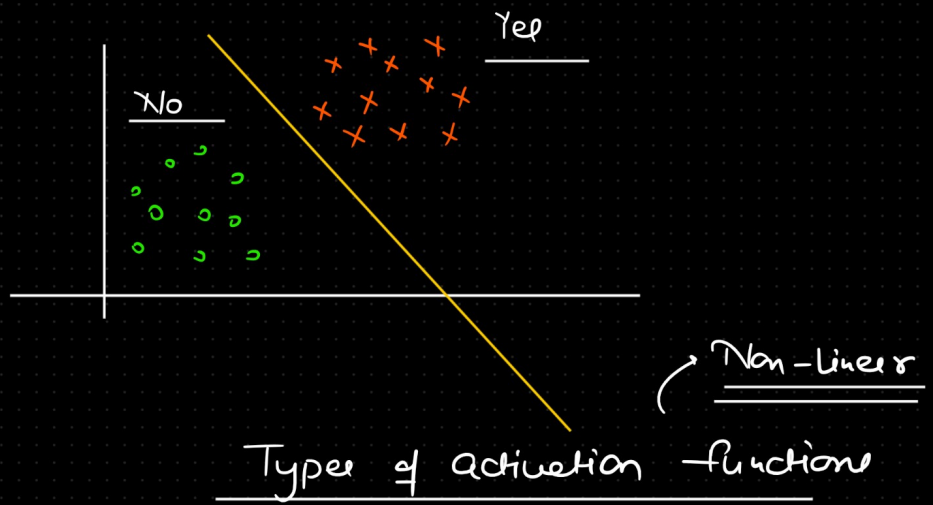
$$Z = \sum_{i=1}^n x_i w_i + b$$

↳ Linear function

↳ Linear function



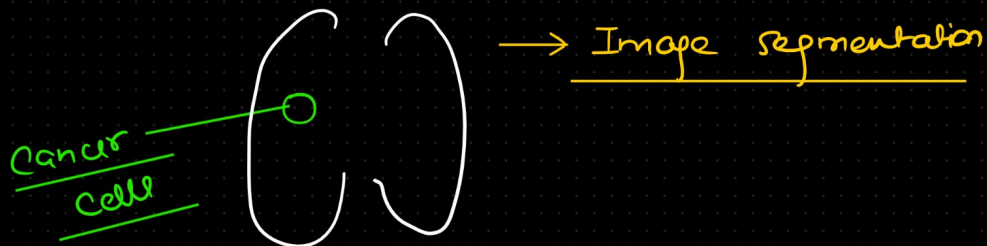
Placed $\begin{cases} 1 \\ 0 \end{cases}$



(Doesn't have any memory)

② Convolutional Neural Network — Complex data
 ↳ grid-like data

Real time application (Images) Seg Caps → Non CNN
UNET → CNN



own memory

③ Recurrent Neural Networks of sequential data

← Textual Data (NLP)
 ↳ Time Series data
LSTM, GRU

Transformers, BERT

↳ CharGPT

Google Translation

④ GAN (Generative Adversarial
↓ Networks)
synthetic data