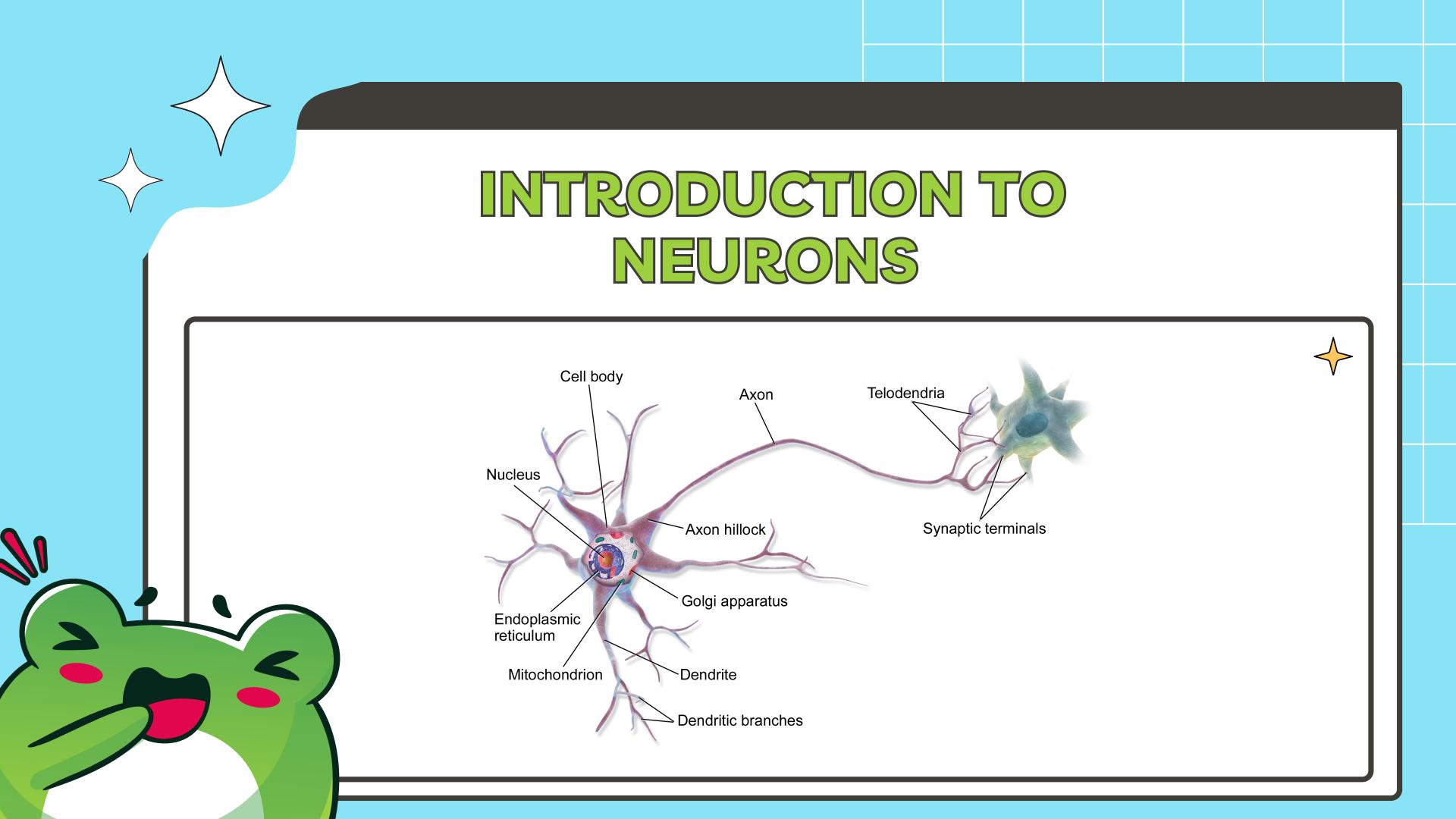
# Deep Learning

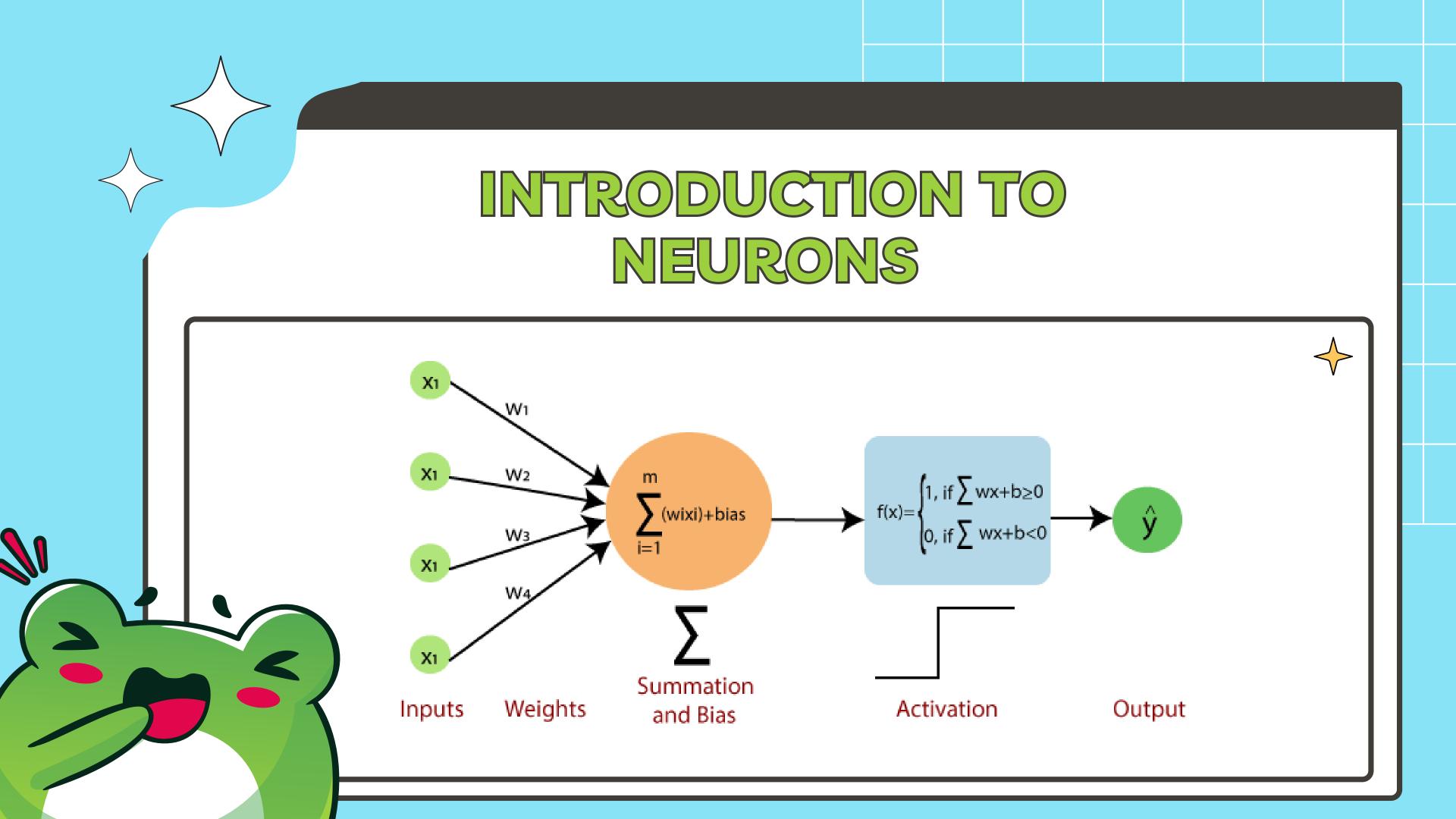






Hello and welcome to my DL CLASSI



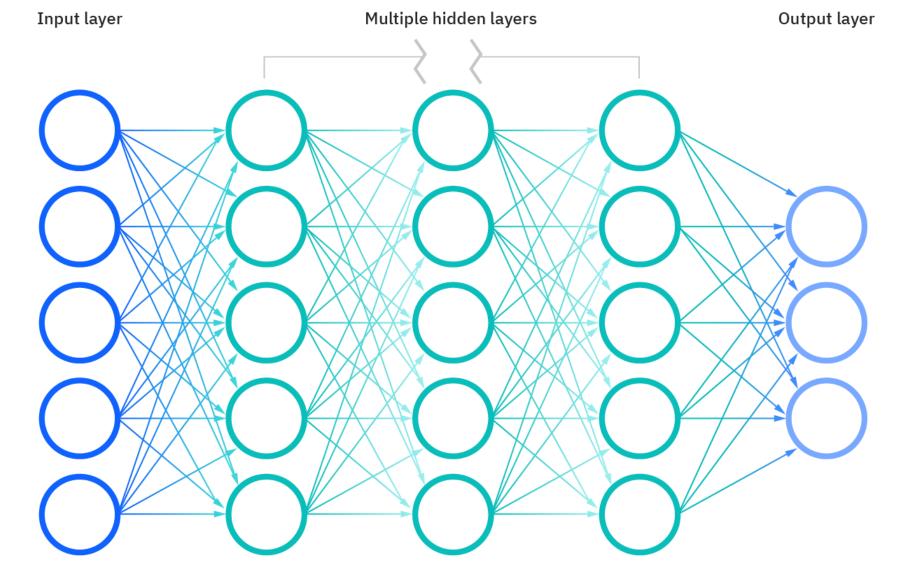




### Neural Networks

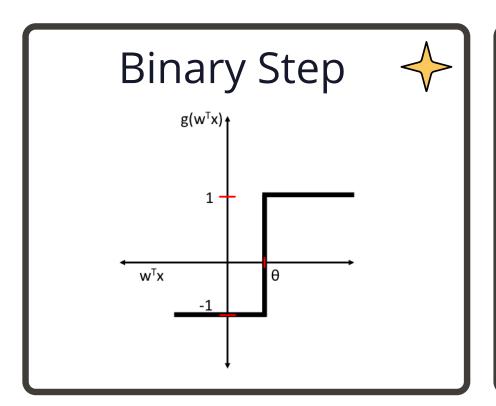


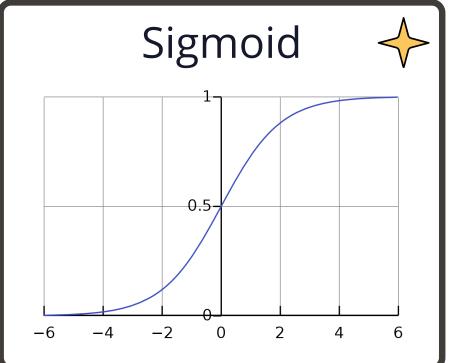
#### Deep neural network



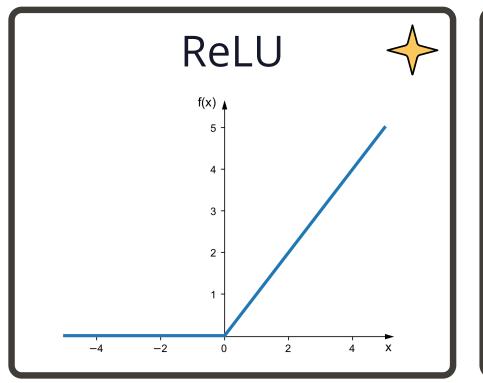


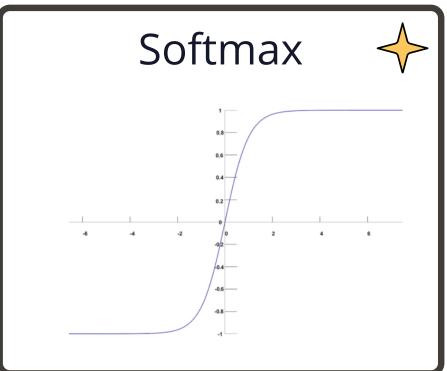
#### Activation Functions









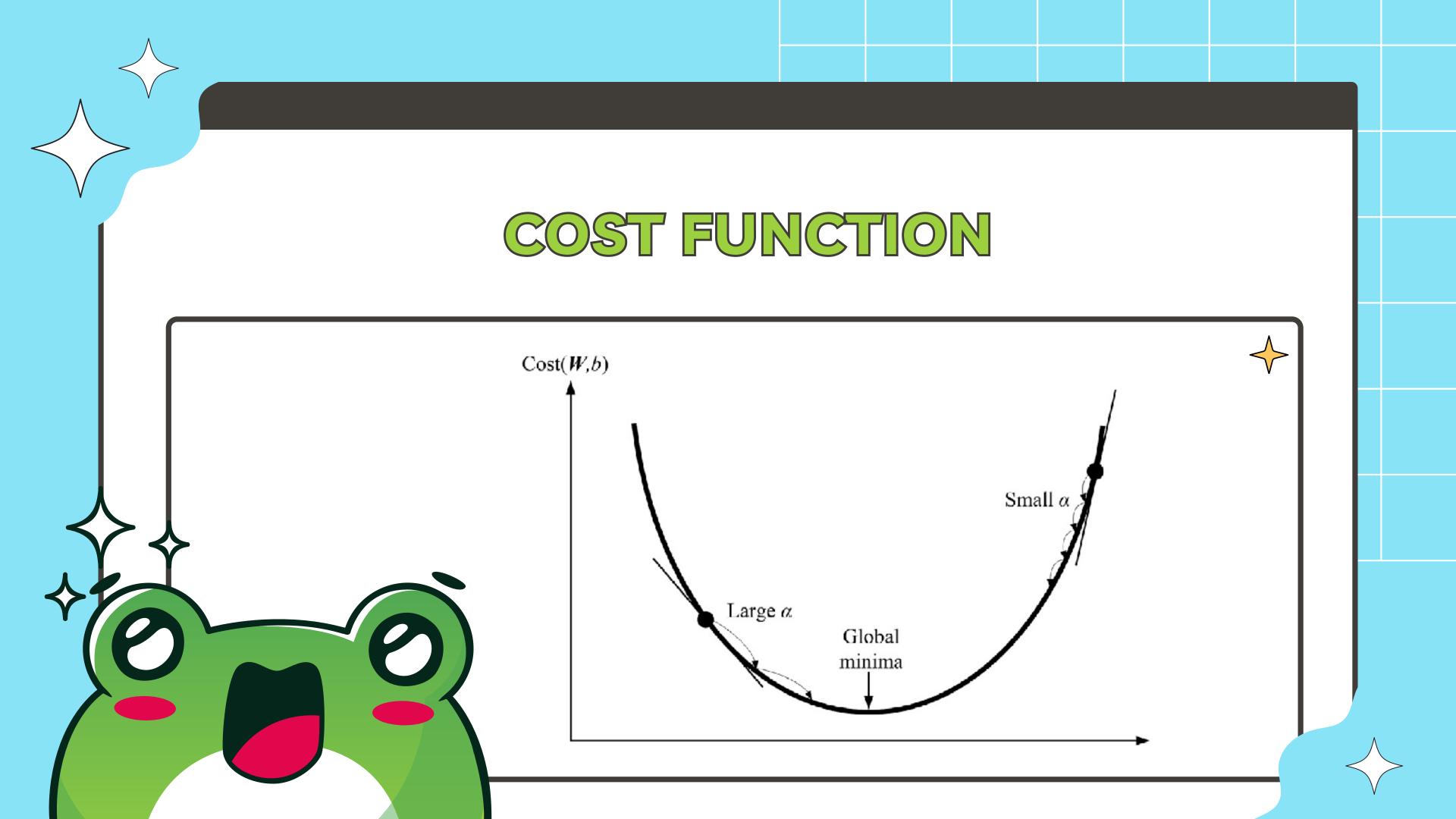


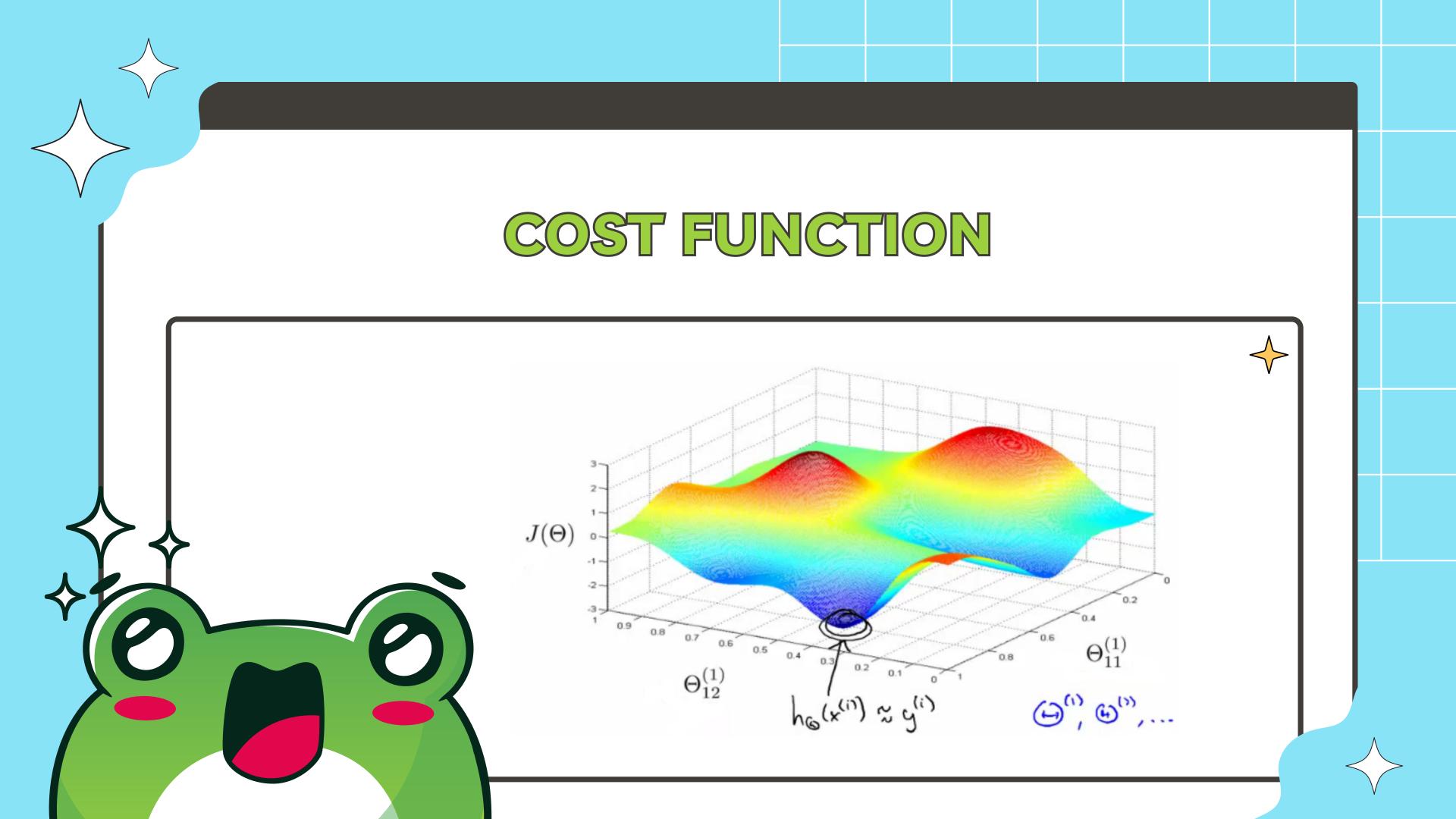


→ Artificial Neural Network: Text & Numeric

→ Convolutional Neural Network: Images

Recurrent Neural Network: Series

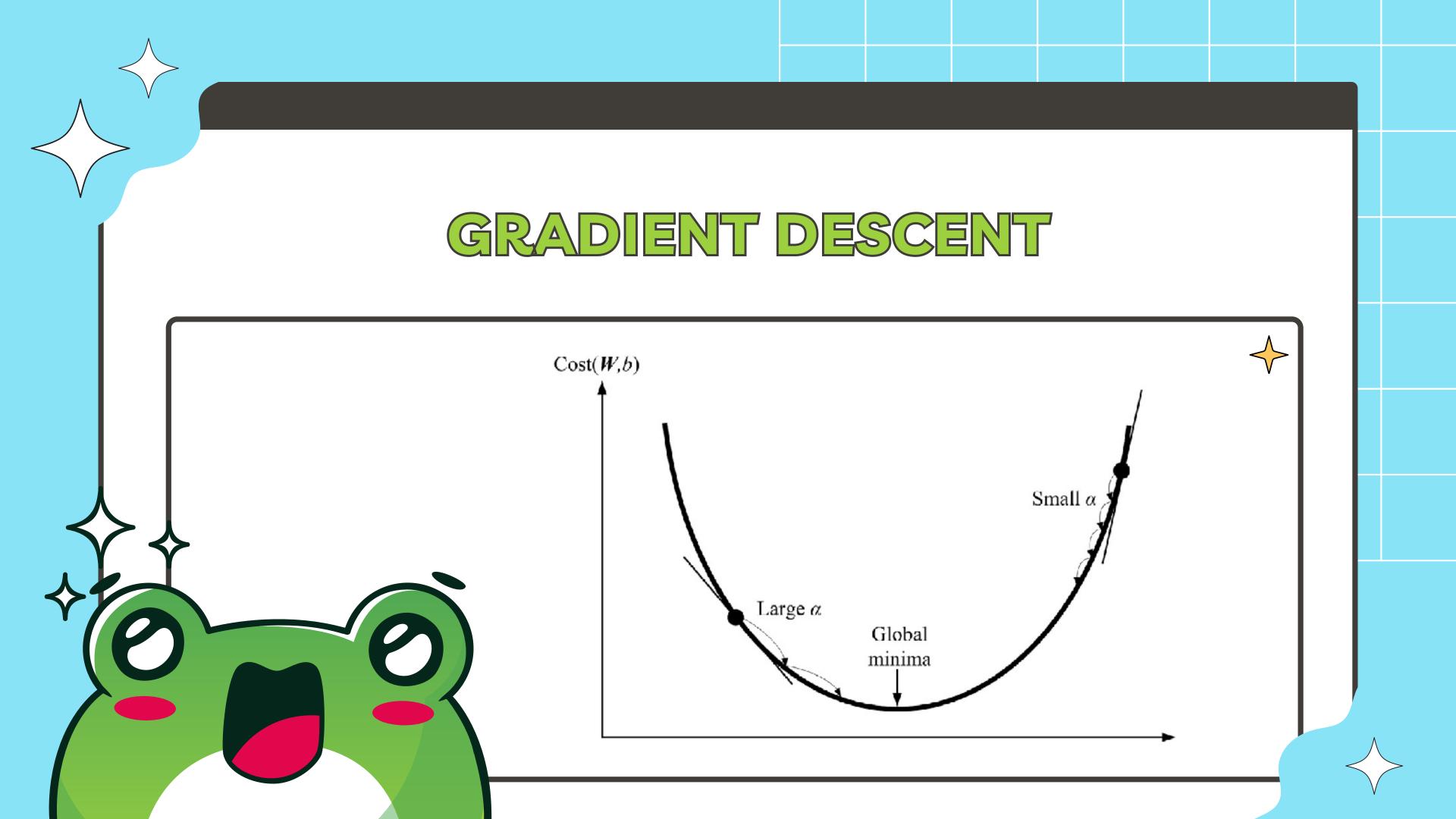


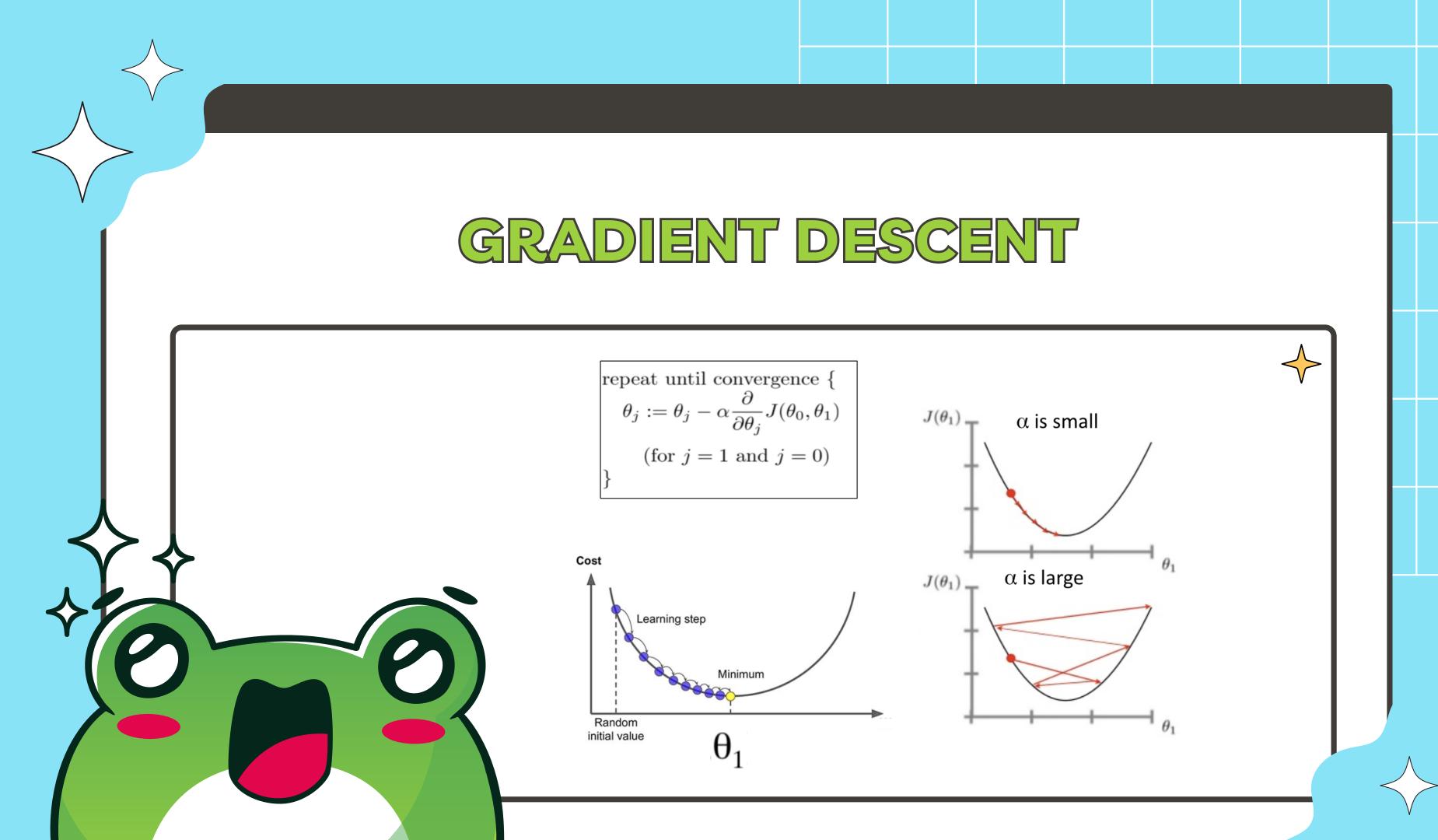


#### Finding Best Paramters



The best weights and biases for each neuron is decided using the cost function aka error. This is calculated by the Gradient Descent.





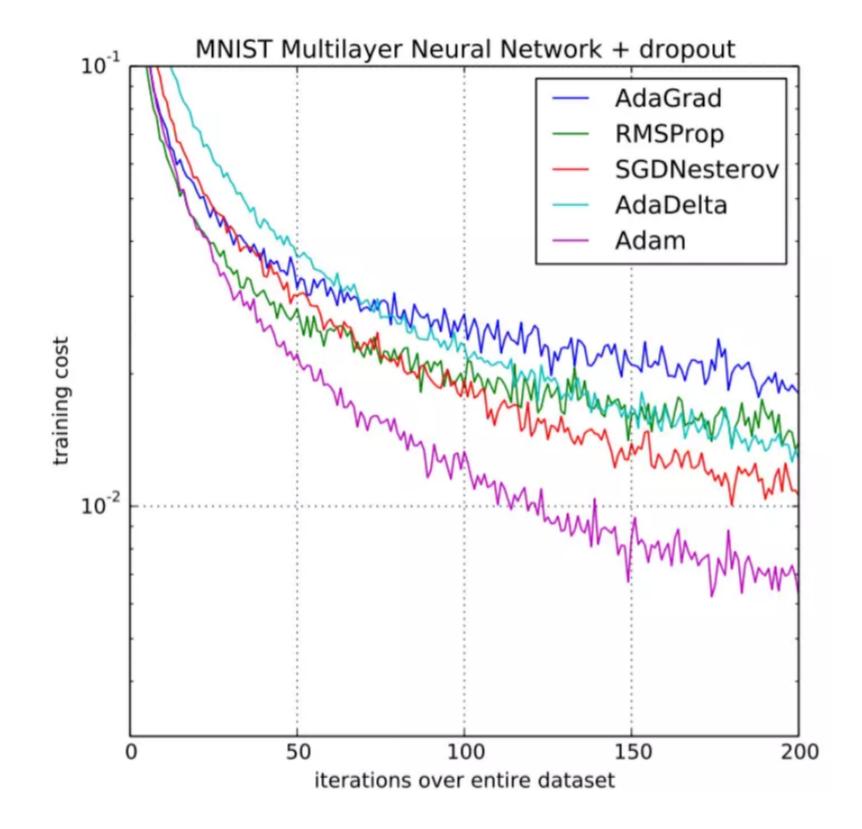




This step size is called the learning rate. This can vary throughout the training process and is called adaptive gradient descent.





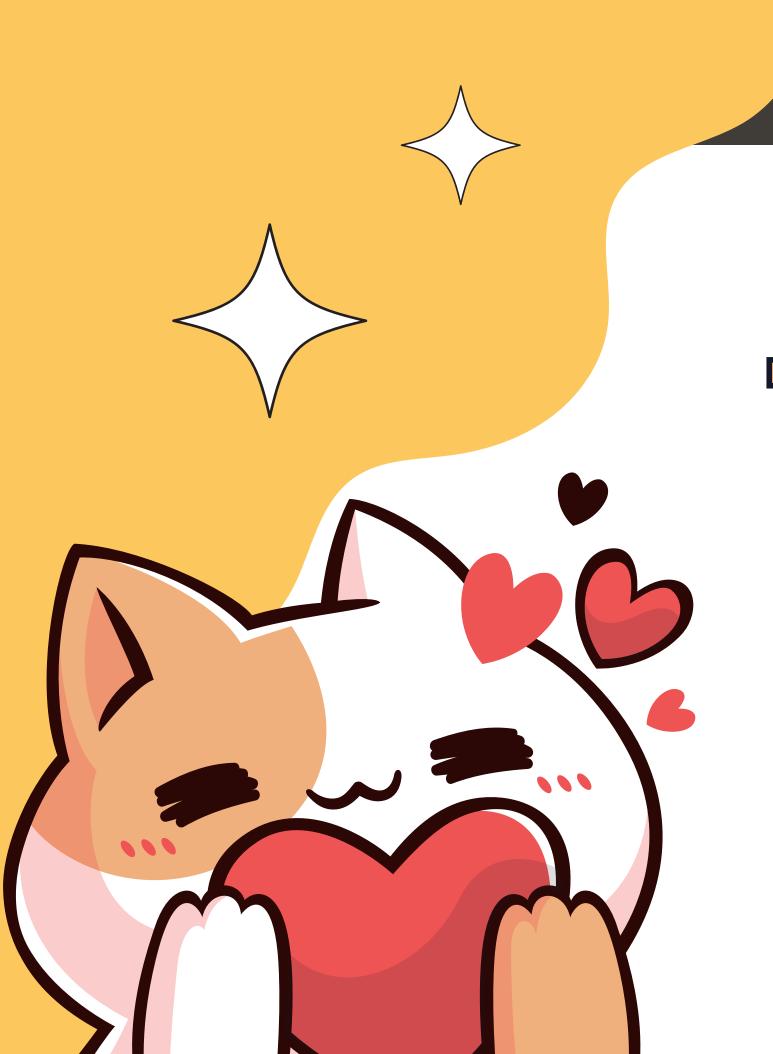




Regression: Mean Squared Error

→ Binary Classification: Binary Crossentropy

Multi-class Classification: Categorical Crossentropy



## THANKYOUS

Do you have any questions for me before we go?