Nome - Vasu Kalanya ROU - PE29 Sub - AI Lat Disignment - 5 dim: Implement Newal Network for any application Objective: - To study and implement neural network for any Theory: -> Neural Network Drchitechire Neural Network are computer complex structures made of artificial neurons that can take in multiple inputs to produce a single output. They is the promary job of a Newal Network to transform uput into a meaningful output. Usually, a neural network consist of an input and output layer with one or multiple hidden layers within . In Neural Network's all the neurons in influence each other, and hence they are all connected. The network can acknowledge and observe every aspect of the dataset of hand and how the different ports of data may or may not relate to each other. This is how newal network are capable of finding extremely complex pattern invost volume of data -> Deep dearning framework Deep learning frameworks offers building blocks for designing braining and validation deep neural network, through a high level programming interface. This eliminates the need to manage packages and

dependencies or bild deep learning framework

from source

→	Commonly used activation function
	(1) Sigmoid Junction
	(ii) Softmax Junction
	(i) Sigmoid Junction (ii) Softmax Junction (iii) Hyperbolic Junction
	FAQ'S
1	which algorithm is used to brain neural network
→	1) of Gradient descent
	2) Newton method
	31 Conjugate graveleut
	3) Conjugate gravdeut 4) One dimensional optimization
	I Multi dimensional optimization
2	How to decide number of hidden layers in neural network?
\rightarrow	How to decide number of hidden layers in neural network? For most problems one could probably get descent
	performance by setting the hidden layer configuration
	using just two rules @ Number of hidden layers
	equals are and @ the number of neurons is that
	layers is the mean of their neurons in the input
	and output layers.
3	what is the drawback of deep learning?
\rightarrow	It requires very large amount of data in order
	to perform better than other techniques. It is
	extremely expensive to train due to complex data
	models. Morever deep leerning requires expensive
	GPVs and hundreds of mechanics. It increases
	the cost to the users.