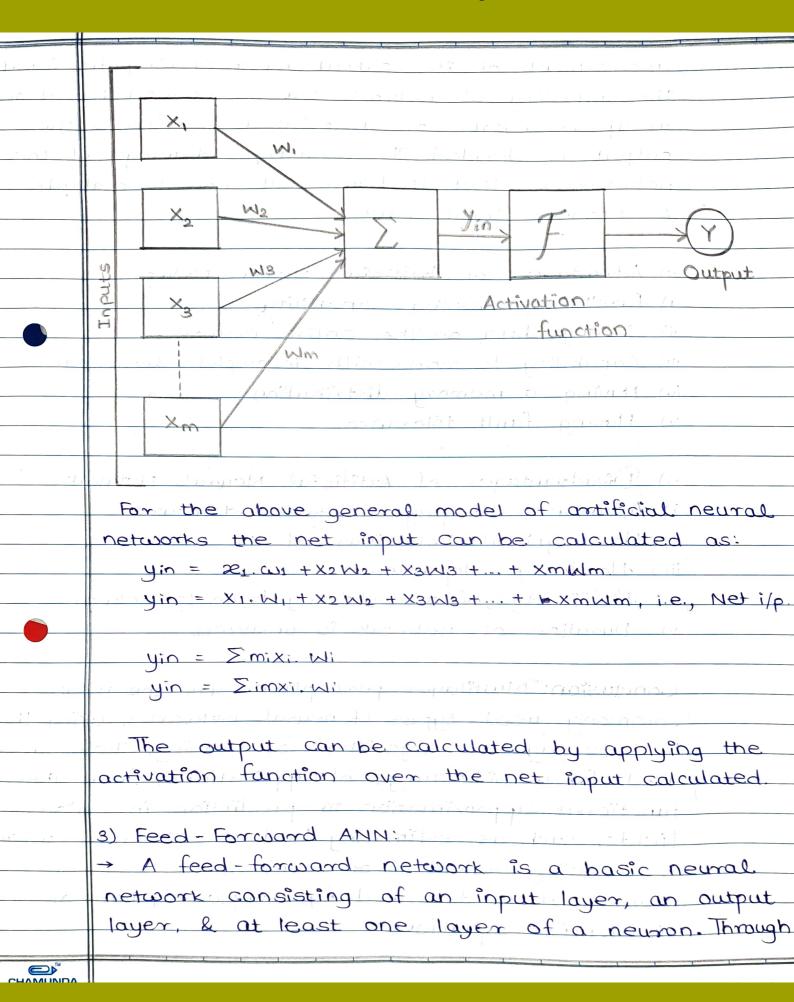
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	NAME: KSHITIJ VINOD SALI
1 1115	CLASS & DIV: TE-A
-	Rou No.: 35059
	Title: Multilayer Neural Network Modelymond
or, Perry	Problem Statement: Download the dataset of National
~ · · · · · · · · · · · · · · · · · · ·	Institute of Diabetes and Digestive & Kidney
	Diseases from below links Internation
	https://racu.githubusercontent.com/jbrownlee/Datasets/
01.0010	master/pima-indians-diabetes data csv
	The dataset has a total of 9 attributes where
	the last attribute is "Class attribute" having value
	0 & 1. (1 = "Positive for Diabetes", 0 = "Negative")
	a) Load the dataset in the program. Define the ANN
	model with Keras. Define at least two hidden
·\.	layers. Specify the RelU function as activation
1 1 1 1 1	function for the hidden layer and Sigmoid for
	the output layer, parses all haindress
- 10	b) Compile the model with necessary parameters.
777	Set the number of epoches & batch sizes and
0	" fit the model pain some and at
* .	c) Evaluate the performance of the model for
	different values of epoches & batch sizes.
	d) Evaluate model performance using different
	activation function visualize the model using
	ANN visualizer
	the state of the s
	Objective: Neural network, a computer program
	that operates in a manner inspired by natural
€ TV	
CHAMUNDA	

The second secon	neural network in the brain. The objective of
· .	Such artificial neural networks: is to perform
	such cognitive functions as problem solving and
	machine learning usus soil mod
	Theory Edward Merical Merican Modern
Innoî beld	In Neural networks are parallel computing devices
	which is basically an ottempt to make a comp-
	uter model of the brain. The main objective is
	to developi a system to perform variant
	computational tasks faster than the traditional
arcaden s	ssystems & In lutot a and teaninh and
	nivod "studiette ezoio" zi studiette rzpl adl
("	1) Artifical Neural Network : 100
	- ANNO is an efficient computing system whose
	central theme is borrowed from the analogy of
	biological neural networks. ANNS rave also
	named as "Artificial Neural Systems" for "Porellal
	Distributed Processing System" Connectionist
249490	System" ANN acquires a large collection of
	funits that are printerconnected in some pattern
	to allow communication between the units. This
YEST	units, also referred to as nodes con neurons,
	are simple processors which operate in
tue ro	Phanallely anaparon per formance upoling
nater	shom adt griloueiv anitomit anitovitov
C.	2) Model of Artificial Neural Network
	> The following diagram represents the
an na	general model of ANN followed by its process-
	aing! bariquai padanar n ai estimaça tust



	assessment of its output by reviewing its input,
	the intensity of network can be noticed based on
	group behaviour of associated neurons & the
	output is decided. The primary advantage of this
	network is that it figure out how to evaluate
	& recognize input patterns
	, ,
	4) Advantages of Artificial Neural Network:
	i) Parellal processing capability.
	ii) Storing data on the entire network.
	iii) Capability to work with incomplete knowledge.
	iv) Having a memory distribution.
	v) Having fault tolerance.
	5) Disadvantages of Artificial Neural Network:
- True	i) Assumance of proper network structure
	ii) Unrecognized behaviour of the network
	iii) Handware dependencies
ji loki	in) Difficulty of com showing issue to network
	v) Duration of network is unknown
	Her with the state of the state
	Conclusion: Multilayer perceptrons are the most
	commonly used types of neural networks, using the
sell i	back propagation algorithm for training, they can be
liverely	used for a wide range of applications, from the
	functional approximation to prediction in various
	fields, such as estimating load of calculating system
	or modeling evaluation of chemical reaction of
trating	polymerization, described by complex system of
francisi.	differential equations
TIA	
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