Question_02

R) <u>-</u>								
U	0	0	O	٥	0	0	0	0	0
0	1	2	1	0	3	1	1	2	0
0	3	1	2	1	1	1		2	0
0	2	0	1	1	2	Ö	ı	1	0
0	1	٥	0	ı	1	2	1	1	0
٥	2	2	0	1	1	٥	2	*	0
0	1	٥	1	2	1	1	3	0	0
9	1	1	2	3	1	0	O	1	٥
0	1	1	1	2	1	2	2	1	0
٥	0	O	O	٥	٥	٥	O	0	٥

	Ŀ	7 =				- property	1	1	1
10	0	10	0	0	0	0	0	0	C
-	-			1	2	t	1	2	0
0	1	1	-	1	3	-	2	1	٥
0	2	1	2	-		1	2	2	0
0	1	1	0	0	0		-	-	٥
٥	1	1	2	2	2	2	1	1	
٥	3	1	0	0	1	1	1	1	0
0	0	1	0	0	0	2	1	1	0
٥	1	0	0	1	2	1	2	1	٥
0	1	2	1	1		1	2	1	۵
٥	0	0	٥	0	o	đ	ò	o	σ

B =

0	0	0	0	0	0	0	0	0	0
٥	1	1	1	2	2	2	1	2	0
٥	Į	1	1	0	0	1	1	2	0
٥	2	2	1	1	0	٥	1	1	0
O	1	i	0	1	1	1	1	./.	0
O	3	2	1	3	1	2	1	2	G
0	1	2	2	i	1	1	1	_	O
0	1	ŧ	1	2	2	2	0	1	0
0	1	ł	0				(1	0
Ò	0	O	O	0		0	٥	0	0

Conv1:-

Padding = Yes (Type zero padding),

stride = 1,

Each bias weight = 1

	A A A		
R =	After	Applying	Edu.
		11.9.9	Filter_1

.,			7	-	-	. 4	0 ,	
~3	-1	-2	-1	-1	-1	-2		-
-1	2	0	7				-2	man confidence
2	1	_	-	/	1	O	1	State of Street,
Bullion State of Street	to a believe and the same	2	a	0	-1	1		Section Section
O	-2	ı	٥	1	0	-		
Q	0	-1	-1	()		- 2	-1	-
		-		U	1	- 2		
		-	- 2	Ø	0	2	1	
O	-1	O	O	0	-1			-
1	1	-	-	-		(-1	
-	1	2	3	1	0	0	1	

	67	=					
-2	-1	-2	-1	-3	-3	-2	-1
	o					-1	0
						1	O
	٥					1	1
1				2		O	0
2	1	O	-1	-1	٥	-1	0
-1	-1	-1	-1	O	1	-1	0
1	U	0	ı	2	l	2	1

particular statements	B =						
+1	+1	+1	@	4	+1	+1	+2
-1	-1	0	1	2	2	0	1
Ø	O	i	-/	-1	0	0	1
-1	٥	0	-2	-1	-2	0	-1
٥	-1	-2	9	0	ď	0	-/
2	1	0	1	-1	d	1	1
0	1	2	1	1	0	0	1
1	1	1	2	2	2	O	1

After Applying Filter_2

1		1	-					V
1	2	O	-2	2	1	-2	1	-1
	١	-(0	-1	U	ı	ı	-2
	0	-1	1	1	-1	-1	1	-1
	0	-1	1	1	1	G	-1	-1
-	2	-2	-1	1	-1	1	2	-2
-	0	٥	2	O	-1	2	-1	-3
-	1		2	-1	-3	-1	1	0
	-	0		0	0	1	-1	- 2

1	2	G	1	٥	-1	1	-1
_ {	ن	O	1	2	2-1	-1	-2
1	-1	-1	O	1	2	-1	-2
i	1	1	0	0	-1	-(-1
_ 1	-3	-1	4	1	0	O	-1
_1	O	-1	ପ	. 2	1	-1	-1
U	-1	1	2	O	U;	0	-2
2	O	-1	-1	0	2	0	-2

1	U	1	1	0	-1	0	-1
1	O	-1	-1	1	1	1	-1
2	-(-1	-1	-1	1	ì	-1
1	-1	U	(C	0	0	-1
2	-2	1	٥	-1	0	٥	-1
2	1	-1	-1	0	٥	-1	-1
1	0	1	1	0	-2	-/	0
1	-1	-1	0	1	1	0	-1

After adding bias weight:-

Channel-1

-3	0	-2	1	-1	-2	-2	- 2
i	4	6	4	8	6	2	5
6	4	6	1	2	5	5	5
		4				3	2
4	2	2	4	4	1	1	3
6	6	1	1	1	5	5	5
2	2	4	8	4	3	3	3
6		6			6		

channel-2

7	5	2	7	4	-/	5	Q
,	2		-	6	4	3	~2
_	0		3	2	5	4	-1
5			5	4	2	1	٥
8	-	2	And the second second	2			
	4	3	2	4	6	0	-2
1	3			A STATE OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDR	PARTICIONAL SALES		
7	2	2	2	4	7	2	-2

Pool-1

Padding = Null, Stride = 2, Filter size = 2, Max Pooling

4	6	8	5
6	6	5	5
6	4	5	5
6	9	8	6

7	7	6	5
6	5	5	4
8	5	6	5
7	7	7	3

Conv2:-

Padding = Yes (Same) Stride = 1,

Each bias weight = 0.1

0-1	6	0
0	O	٥
a	O	-0.1

After padding

Channel#1

4	4	6	8	5	5
4	4	6	8	5	5
6	6	6	5	5	5
6	6	4	5	5	5
6	6	9	8	6	6
6	6	9	8	6	6

channel # 02

7	7	7	6	5	5
7	7	7	6	5	5
6	6	5	5	4	4
8	8	5	6	5	5
7	7	7	7	3	3
7	7	7	7	3	3

After padding:

Apply Filter on channel 1, and channel 2:-

channel 1

	to a series of the fermion	named to the state of the state of	1
- 0.2	-0.1	0.1	0.3
υ	-0.1	0.1	0.3
- 0.3	-0.2	O	-0.1
-0.3	-0.5	-0.2	-0.1

channel 2

0.2	0.2	0.3	0.2
0.2	0.1	0.2	0.1
-0.1	-0.1	0 - 2	0.2
0.1	0.1	0.2	0.3

After adding bias weight

,	charnet 1				
-0.1	٥	0.2	0.4		
0.1	٥	0-2	0.4		
-0.2	-0.1	0.1	٥		
-0.2	-0.1	- 6 · 1	ð		

	The second second second second second		
0.3	0.3	0.4	0.3
0.3	0.2	e. و	0.2
٥	0	0.3	8٠3
0.2	0.2	0.3	0.4

Pool 2:-

Padding = Null, stride = 2, Filter size = 2, Max pooling

channel_1

0.1	0.4	
-0.1	٥	

channel_2

0.3	0.4
0.2.	0.4

FC3:-

Number of units = 2,

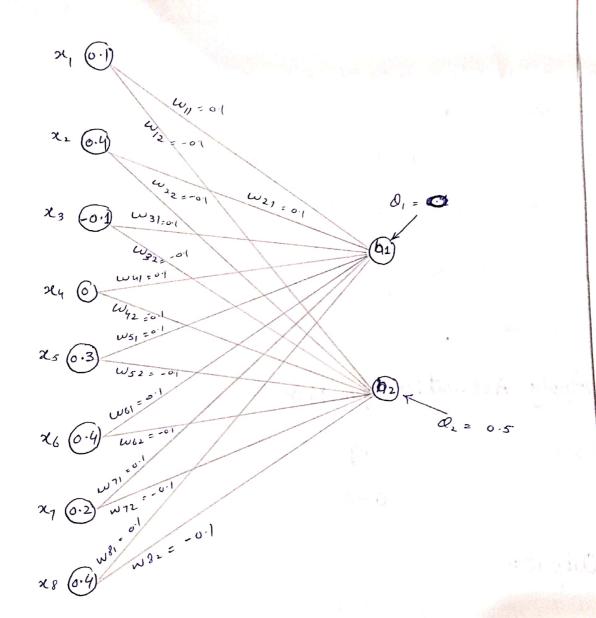
First hidden unit weight = 0.1,

First hidden unit bias weight = 0,

second hidden unit weight = -0.1

Second hidden unit bias weight = 0.5,

Activation function = Relu,



$$h_1 = \frac{(\omega_{11})(\omega_{11})}{(\omega_{11})} (\chi_1 \chi_{\omega_{11}}) + (\chi_2)(\omega_{21}) + \chi_3(\omega_{31}) + \chi_4(\omega_{41}) + \chi_5(\omega_{51})$$

$$+ \chi_6(\omega_6) + \chi_7(\omega_{71}) + \chi_8(\omega_{81}) + \omega_{11}$$

$$h_1 = (0.1)(0.1) + (0.4)(0.1) + (0.1)(0.1) + (0)(0.1) + (0.3)(0.1) + (0.4)(0.1)$$

$$+ (0.2)(0.1) + (0.4)(0.1) + 0$$

h₂ = x₁·w₁₂ + x₂·w₂₂ + x₃·w₃₂ + w₄₂·x₄ + x₅·w₅₂ + x₆·w₆₂ + cd₁·w₇₂ + N₈·w₈₁ + O₂

 $h_2 = (0.1)(-0.1) + (0.4)(-0.1) + (-0.1)(-0.1) + 0(-0.1) + (0.3)(-0.1)$

 $h_2 = -0.01 - 0.04 + 0.01 - 0 - 0.03 - 0.04 - 0.02 - 0.04 + 0.5$

$$\left(h_{2} = -0.47\right) \quad 0.35$$

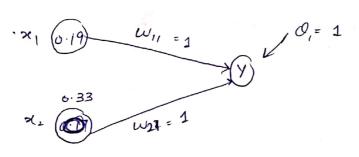
Apply Activation function

Relu (h1) = 0.19

Relu (hz) = 0-33

Output :-

Number of units = 1, output unit weight = 1, Bias = 1 Activation = signal



$$Y = x_1 \cdot \omega_{11} + x_2 \cdot \omega_{21} + \theta_1$$

= $(0.19)(1) + (0.33)(1) + 1$

$$\frac{1}{1 + e} = 0.820$$

1. Forward pass: make a table where the activation shape

L dimension + value), activation size and number of trainable

Parameters are clearly visible.

Hyper Parameters	Activation Shape	Activation size	# parameters
Input: (8.8.3)	(8.8.3)	192	0
Filte size = 3, stride = 1	(8,8,2)	128	
Pool1: P= null, s= 2 Filter size= 2	(4,4,2)	32	Buchpiepel
Conv2:- Padding = Yes Stride = 1 Filter size = 3 No. of filters = 1	(4,4,2)	16	
Pool 2:- Padding = Null stride = 2 Filter size = 2	(2,2,1)	4	
FC3:- units = 2	(2,1)	2	(4+1) x 2 = 10
output:- units = 1 Activation = sigmoid	(1.1)	1	(2+1) x 1 = 3

2. calculate the cost/error value using the cost function.

Cost /error value: - or loss seis noitourbo (salar + noiseasail)

Hyper farameters

3. Backpropagate the error and update the weights.