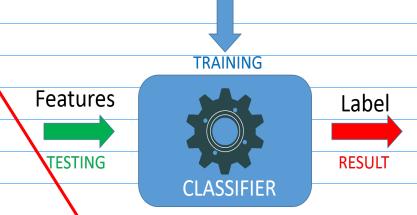
Applying Deep Learning to a problem

Features & Labels



- 1. Problem Definition: To predict whether it is going to rain today / not
- 2. Identify features and labels
 - * Kabels: possible solutions for the problem
 - 4 features: Critical Factors which decide the

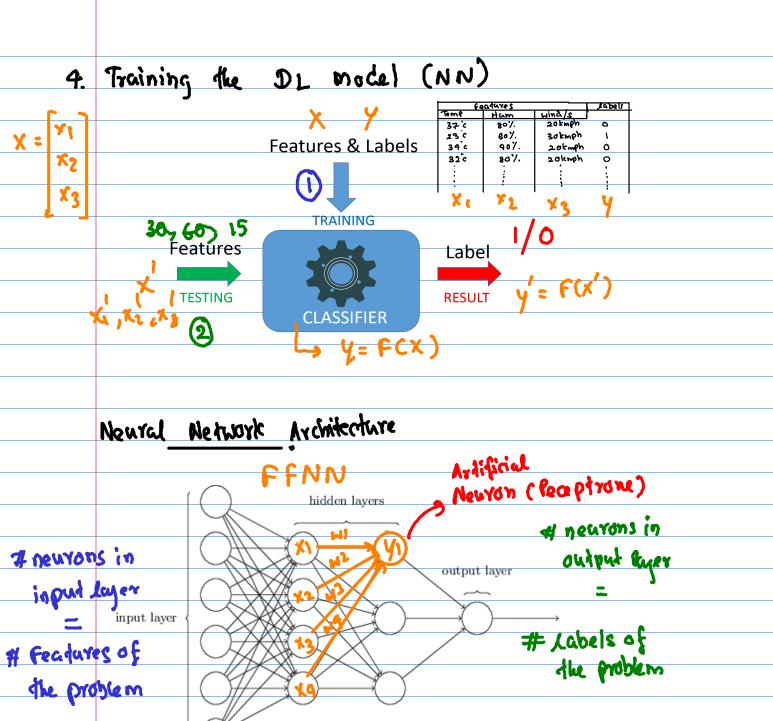
Labels

Labels - Rain (1) Foatures - Temp

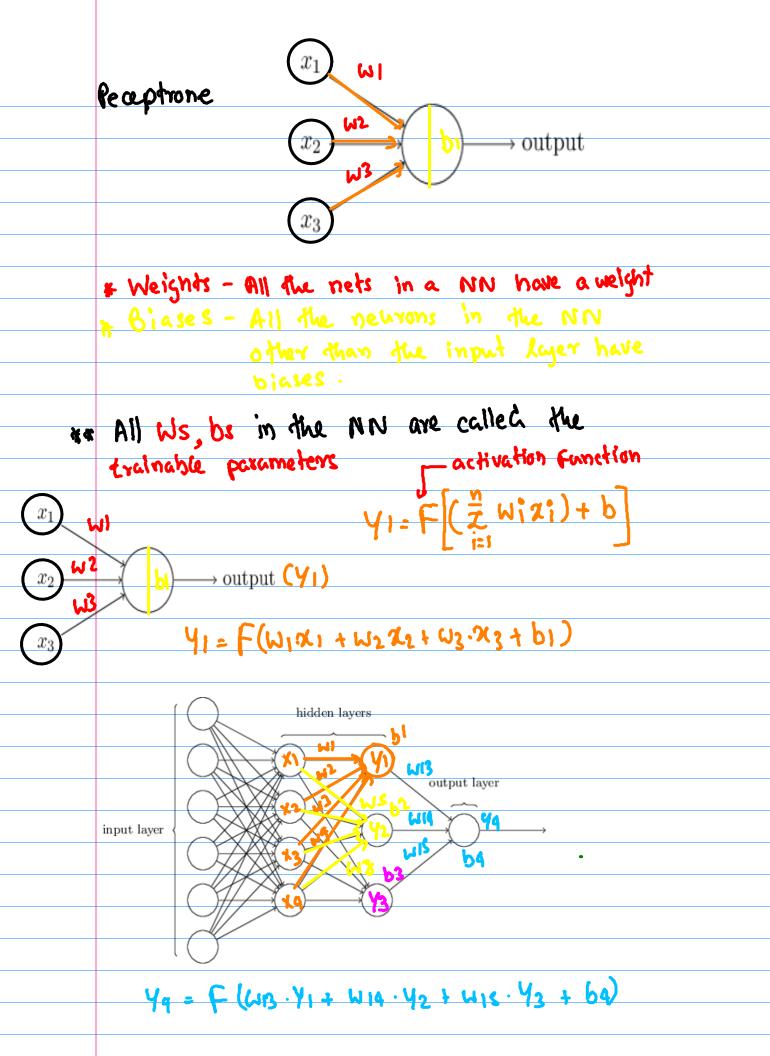
- Not rain (o) - Hum
-wind/s

3. create a dataset

	f	Labels		
	Temp	Ham	wind/s	
Day	37'	80%	20kmph	٥
Dem 2	23 (60%.	30kmph	1
Dey 3	34°C	40%.	20tmph	٥
Duga	32°c	80%	20kmph	0
J .				•
				•
	•	•	1	



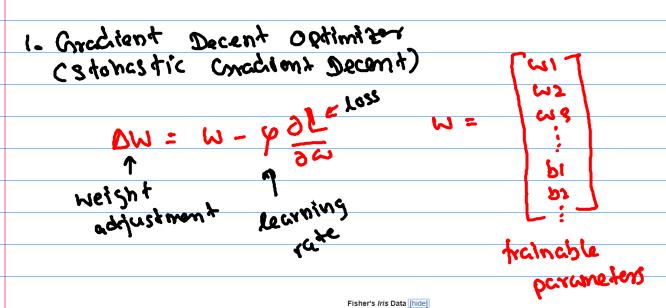
Leyers

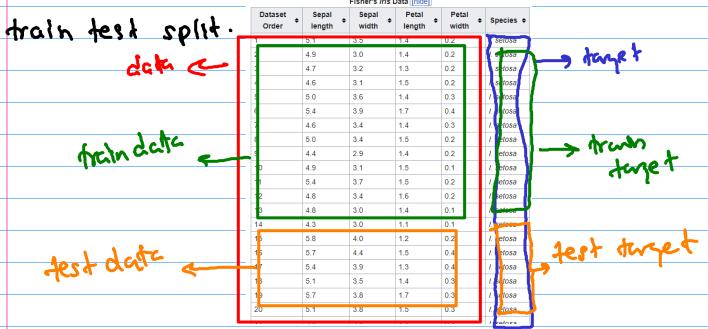


Simple NN WB (X) FI (3) F2 L2 **(X3 f**3 Y1 = F (W1.x1 + W2.x2 + W3 x3 + b) 42 = F (m4.x1 + m5.x2 + m6x3 + p5) 1 - W4, W5, W6 43 = F (W7. X1 + W8. X2 + W9. X3 + b3) - W2, W8, W9 Y4 = F (W10 - X1 + W11 X2 + W12 X3+ b4) - WIO, WII, WIZ 1 - MIS, MIS, MIS, WEO 45 = F(W13. 41 + W19. 45 + W15.43 MB P2 4 M16.44 4 P2) 4000 (A) Y = = (WA. YIT WISYZ + WIG. /3 56 Models **(4)** + M20.4+ P6) LΣ Net kela (3)

ris Flower Dataset		Mer	Fisher's Iri	s Data [hide]		7
	Dataset Order	Sepal length	♦ Sepal width	Petal	Petal width	Species
ris Flower Detaset Labels - 0, 1, 2 Setosa preside verside	1	5.1	3.5	1.4	0.2	/ setosa
10 hole - 0,1) L	2	4.9	3.0	1.4	0.2	I. setosa
a n A stole	3	4.7	3.2	1.3	0.2	I. setosa
"leks"	4	4.6	3.1	1.5	0.2	I. setosa
co your	5	5.0	3.6	1.4	0.3	I. setosa
De, Meximo	6	5.4	3.9	1.7	0.4	I. setosa
V - /	7	4.6	3.4	1.4	0.3	l. setosa
		5.0	3.4	1.5	0.2	. setosa
	9	4.4	2.9	1.4	0.2	I. setosa
Dake -	10	4.9	3.1	1.5	0.1	. setosa
Take	11	5.4	3.7	1.5	0.2	setosa
	12	4.8	3.4	1.6	0.2	I. setosa
	13	4.8	3.0	1.4	0.1	1. setosa
	14	4.3	3.0	1.1	0.1	. setosa
	15	5.8	4.0	1.2	0.2	I. setosa
	16	5.7	4.4	1.5	0.4	l. setosa
	17	5.4	3.9	1.3	0.4	I setosa
	18	5.1	3.5	1.4	0.3	I. setosa
	19	5.7	3.8	1.7	0.3	
	20	E 4	2.0	4.5		I. setosa
SIC HILL ON EAST Tris	Flower	5.1	3.8	1.5	0.3	I. setosa I. setosa I. setosa
The Alli OHK 2	Flower	F. A	2 /	17	0.3	I. setosa
FFNN for Iris NLI ONLE NO OL	Flower		2 /		0.3	I. setosa
O O OL	Flower	F. A	2 /	17	0.3	I. setosa
0 0 olc	Flower	F. A	2 /	17	0.3	I. setosa
0000	Flower	-dreel	2 /	17	0.3	I. setosa
50 O O O O O O O O O O O O O O O O O O O	Flower	F. A	2 /	17	0.3	I. setosa
(S) O O O O O O O O O O O O O O O O O O O	Flower Hosa YI	dred (1)	2 /	17	0.3	I. setosa
61) O O O U	Flower Hose YI	dred (1)	2 /	17	0.3	I. setosa
0 0 olc	Flower Hosa YI	-dreel	2 /	17	0.3	I. setosa
50 0 olc 50 0 0 ve	Flower Hose YI	dred (1)	2 /	17	0.3	I. setosa
0 0 olc	Flower Hose YI	dred (1)	2.1	Are dict	0.3	I. setosa
	Flower Hosa YI replica Y2 restrolow B	(1)	2 /	Are dict	0.3	I. setosa
	Flower Hosa YI replica Y2 restrolow B	(1)	2.1	Are dict	0.3	I. setosa
	Flower Hose YI regular Y2 restrain B	(1) (a) (b)	2.1	Are dict	0.3	I. setosa
	Flower Hose YI regular Y2 restrain B	(1) (a) (b)	2.1	Are dict	0.3	I. setosa
0 0 olc 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Flower Hose YI regimen Y2 restrain B F(W, x,	(d,	2.1	Are dict	0.3	I. setosa
61) O O O W	Flower Hose YI regular Y2 restrain B	(d,	2.1	Are dict	0.3	I. setosa

optimiser - minimise the error





traindada, train target

Features & Labels

