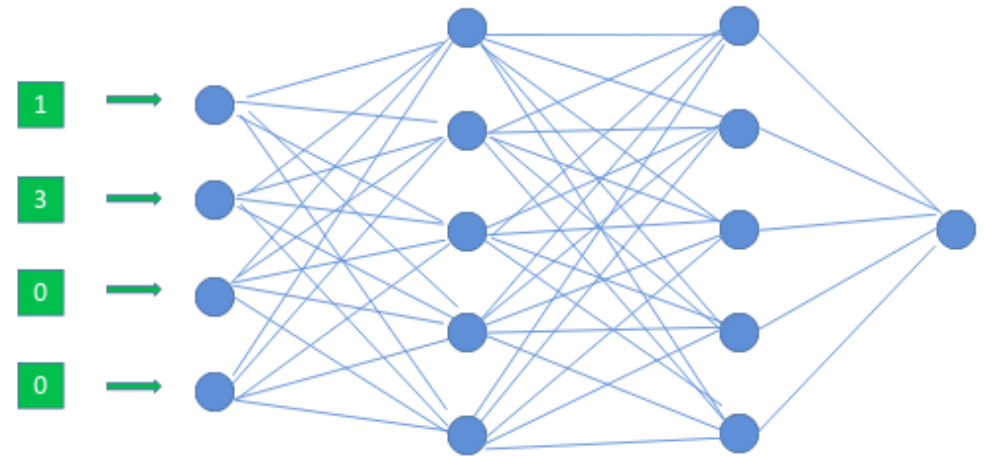


# Forward Propagation Math

gender	age	hypertension	does_smoke	stroke
1	3	0	0	0
1	58	1	1	1
0	8	0	0	0
0	70	0	1	1
1	14	0	0	0
0	47	0	0	0
0	52	0	1	1
0	75	0	0	0
0	32	0	1	0

$$\mathbf{X} = 9 \times 4$$

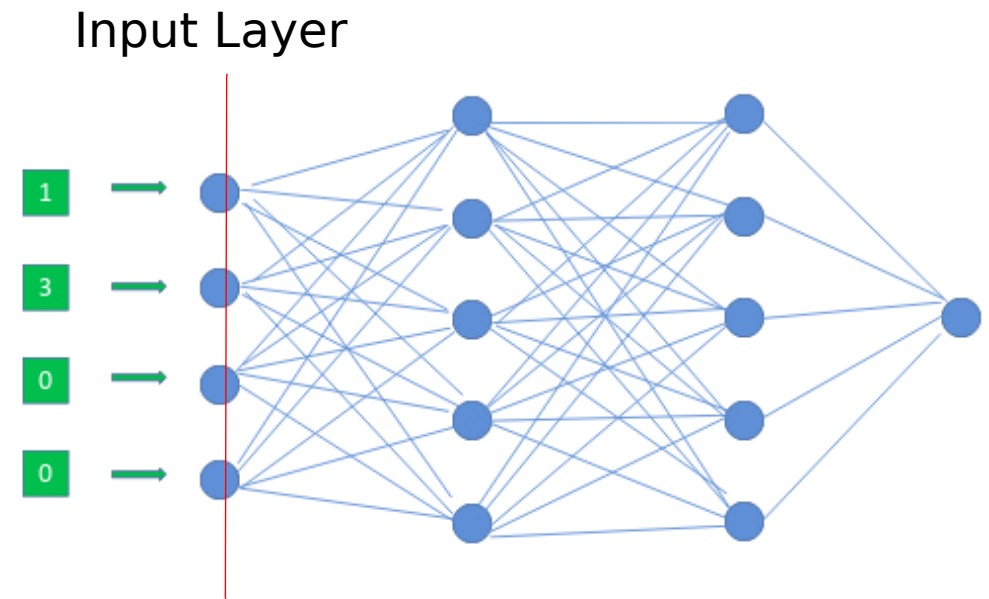
$$\mathbf{Y} = 9 \times 1$$



gender	age	hypertension	does_smoke	stroke
1	3	0	0	0
1	58	1	1	1
0	8	0	0	0
0	70	0	1	1
1	14	0	0	0
0	47	0	0	0
0	52	0	1	1
0	75	0	0	0
0	32	0	1	0

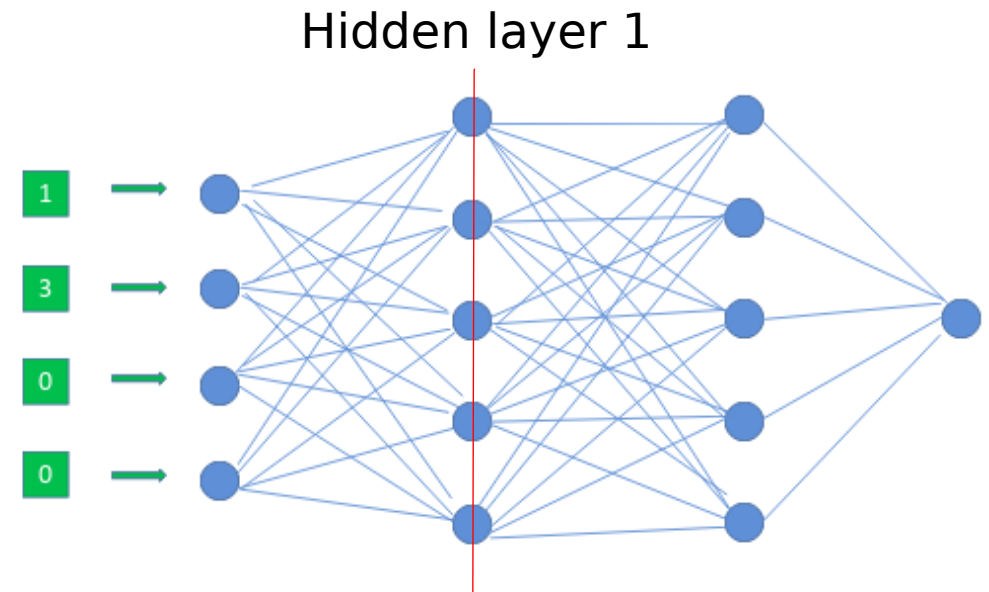
$$\mathbf{X} = 9 \times 4$$

$$\mathbf{Y} = 9 \times 1$$



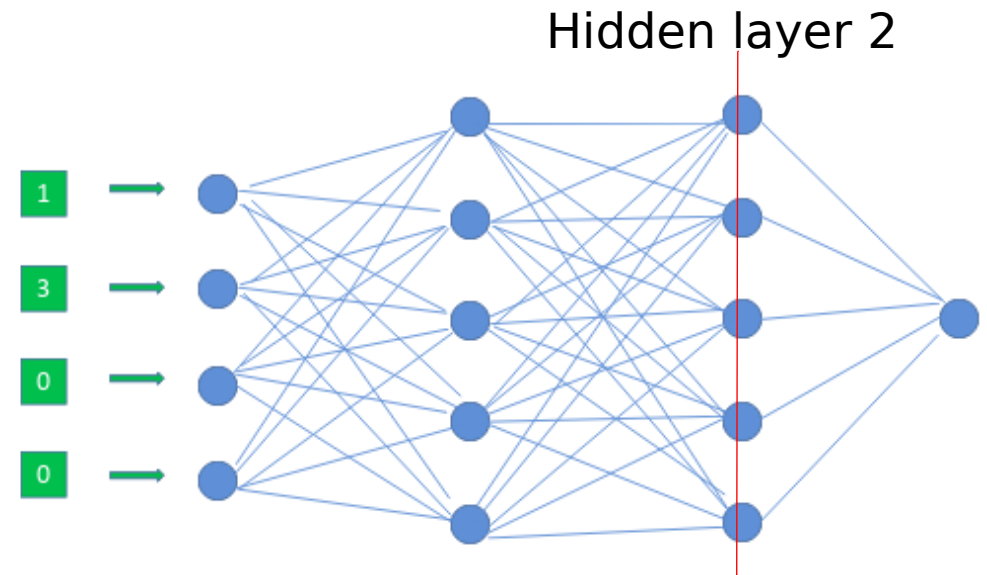
gender	age	hypertension	does_smoke	stroke
1	3	0	0	0
1	58	1	1	1
0	8	0	0	0
0	70	0	1	1
1	14	0	0	0
0	47	0	0	0
0	52	0	1	1
0	75	0	0	0
0	32	0	1	0

$$\mathbf{X} = 9 \times 4$$



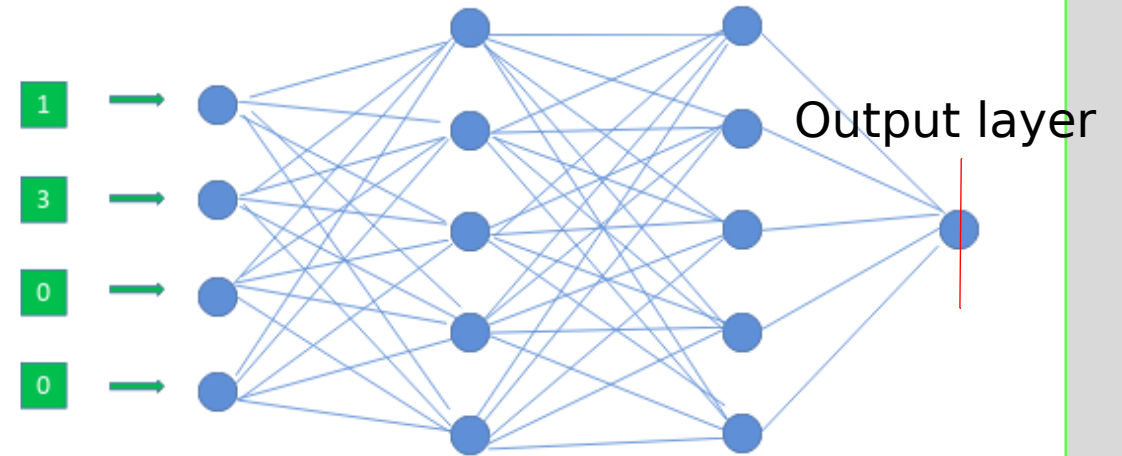
gender	age	hypertension	does_smoke	stroke
1	3	0	0	0
1	58	1	1	1
0	8	0	0	0
0	70	0	1	1
1	14	0	0	0
0	47	0	0	0
0	52	0	1	1
0	75	0	0	0
0	32	0	1	0

$$\mathbf{X} = 9 \times 4$$



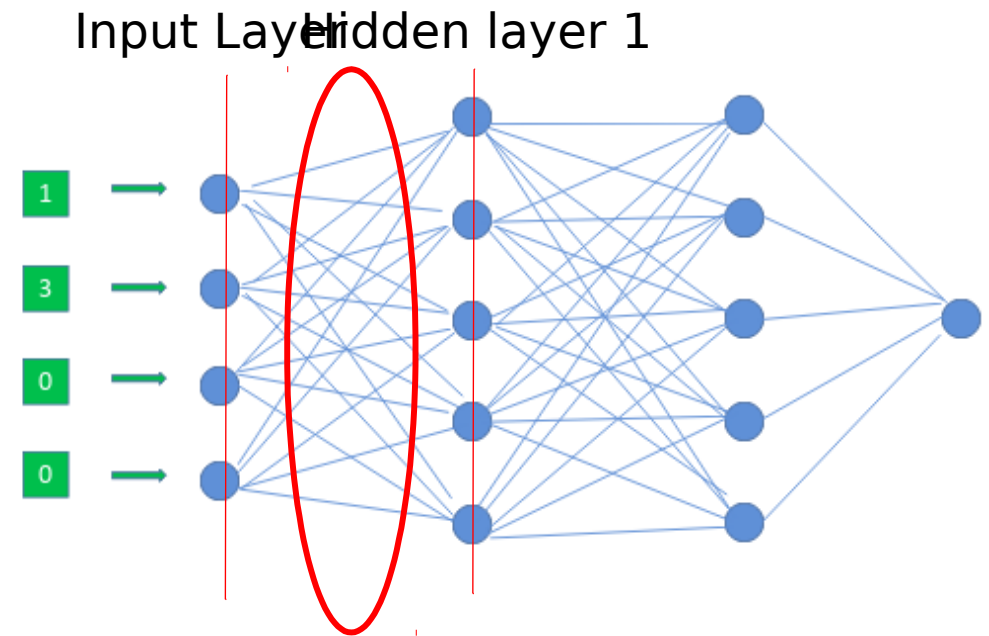
gender	age	hypertension	does_smoke	stroke
1	3	0	0	0
1	58	1	1	1
0	8	0	0	0
0	70	0	1	1
1	14	0	0	0
0	47	0	0	0
0	52	0	1	1
0	75	0	0	0
0	32	0	1	0

$$\mathbf{X} = 9 \times 4$$



gender	age	hypertension	does_smoke	stroke
1	3	0	0	0
1	58	1	1	1
0	8	0	0	0
0	70	0	1	1
1	14	0	0	0
0	47	0	0	0
0	52	0	1	1
0	75	0	0	0
0	32	0	1	0

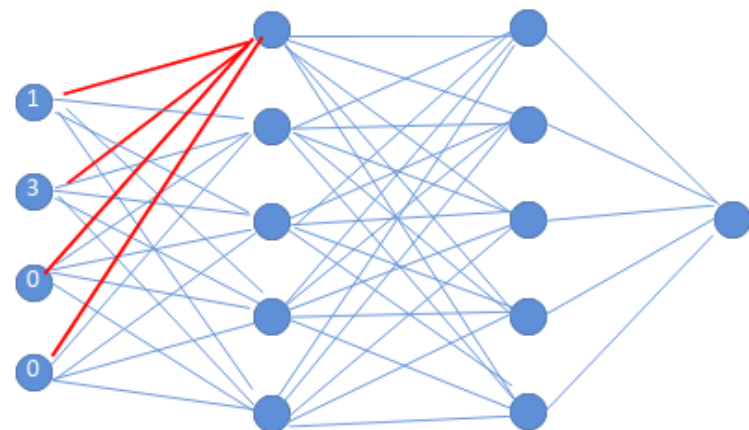
$$\mathbf{X} = 9 \times 4$$



$$W_{ih} = 4 \times 5$$

1	3	0	0
1	58	1	1
0	8	0	0
0	70	0	1
1	14	0	0
0	47	0	0
0	52	0	1
0	75	0	0
0	32	0	1

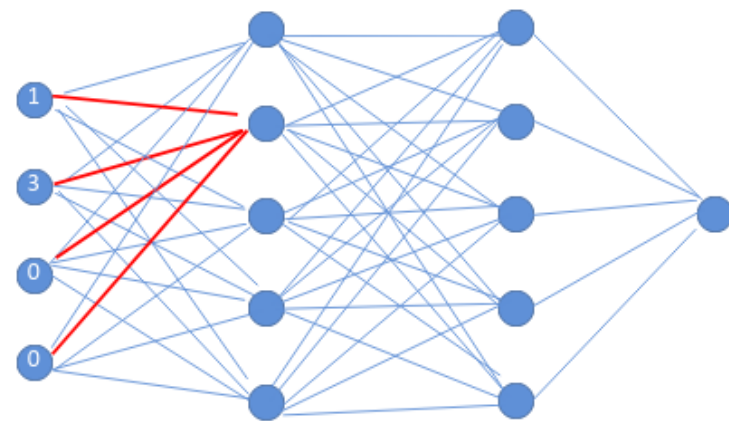
0.3	0.8	0.8	0.7	0.2
0.6	0.3	0.8	0.1	0.2
0.8	1	1	0.6	0.7
1	1	0.2	0.7	1





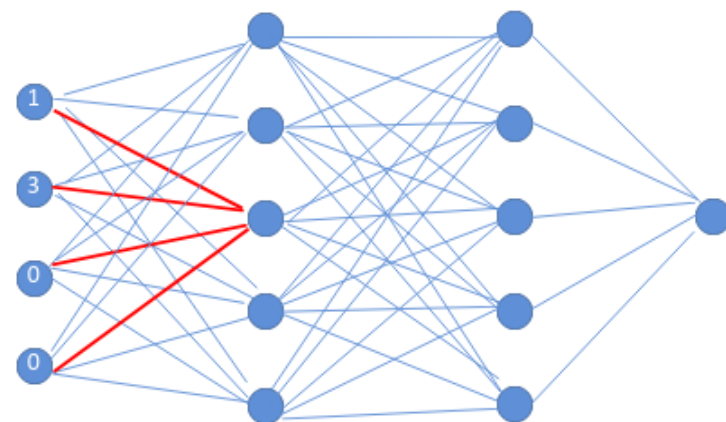
1	3	0	0
1	58	1	1
0	8	0	0
0	70	0	1
1	14	0	0
0	47	0	0
0	52	0	1
0	75	0	0
0	32	0	1

0.3	0.8	0.8	0.7	0.2
0.6	0.3	0.8	0.1	0.2
0.8	1	1	0.6	0.7
1	1	0.2	0.7	1



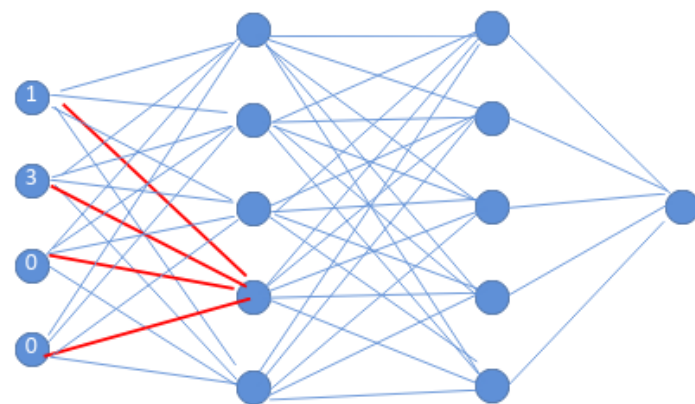
1	3	0	0
1	58	1	1
0	8	0	0
0	70	0	1
1	14	0	0
0	47	0	0
0	52	0	1
0	75	0	0
0	32	0	1

0.3	0.8	0.8	0.7	0.2
0.6	0.3	0.8	0.1	0.2
0.8	1	1	0.6	0.7
1	1	0.2	0.7	1



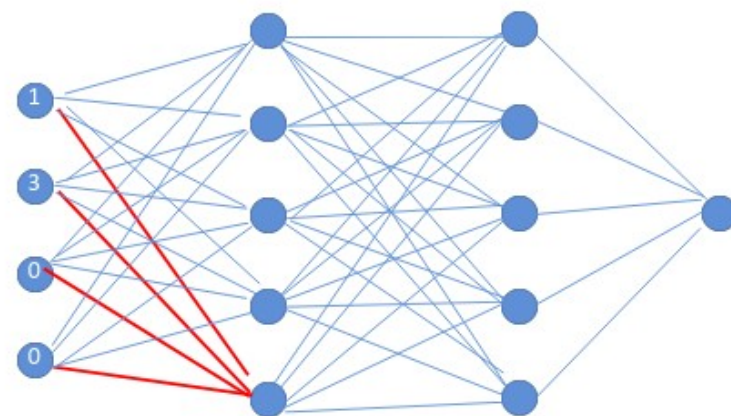
1	3	0	0
1	58	1	1
0	8	0	0
0	70	0	1
1	14	0	0
0	47	0	0
0	52	0	1
0	75	0	0
0	32	0	1

0.3	0.8	0.8	0.7	0.2
0.6	0.3	0.8	0.1	0.2
0.8	1	1	0.6	0.7
1	1	0.2	0.7	1



1	3	0	0
1	58	1	1
0	8	0	0
0	70	0	1
1	14	0	0
0	47	0	0
0	52	0	1
0	75	0	0
0	32	0	1

0.3	0.8	0.8	0.7	0.2
0.6	0.3	0.8	0.1	0.2
0.8	1	1	0.6	0.7
1	1	0.2	0.7	1



1	3	0	0
1	58	1	1
0	8	0	0
0	70	0	1
1	14	0	0
0	47	0	0
0	52	0	1
0	75	0	0
0	32	0	1

$$\mathbf{X} = 9 \times 4$$

0.3	0.8	0.8	0.7	0.2
0.6	0.3	0.8	0.1	0.2
0.8	1	1	0.6	0.7
1	1	0.2	0.7	1

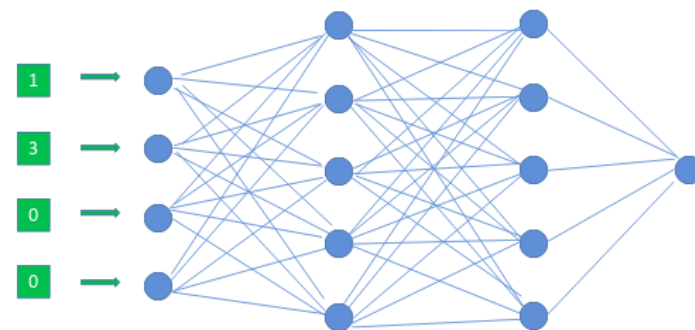


$$\mathbf{W_{ih1}} = 4 \times 5$$

2.1	1.7	3.2	1	0.8
36.9	20.2	48.4	7.8	13.5
4.8	2.4	6.4	0.8	1.6
43	22	56.2	7.7	15
8.7	5	12	2.1	3
28.2	14.1	37.6	4.7	9.4
32.2	16.6	41.8	5.9	11.4
45	22.5	60	7.5	15
20.2	10.6	25.8	3.9	7.4

$$\mathbf{u_1} = 9 \times 5$$

gender	age	hypertension	does_smoke	stroke
1	3	0	0	0
1	58	1	1	1
0	8	0	0	0
0	70	0	1	1
1	14	0	0	0
0	47	0	0	0
0	52	0	1	1
0	75	0	0	0
0	32	0	1	0



Thank You