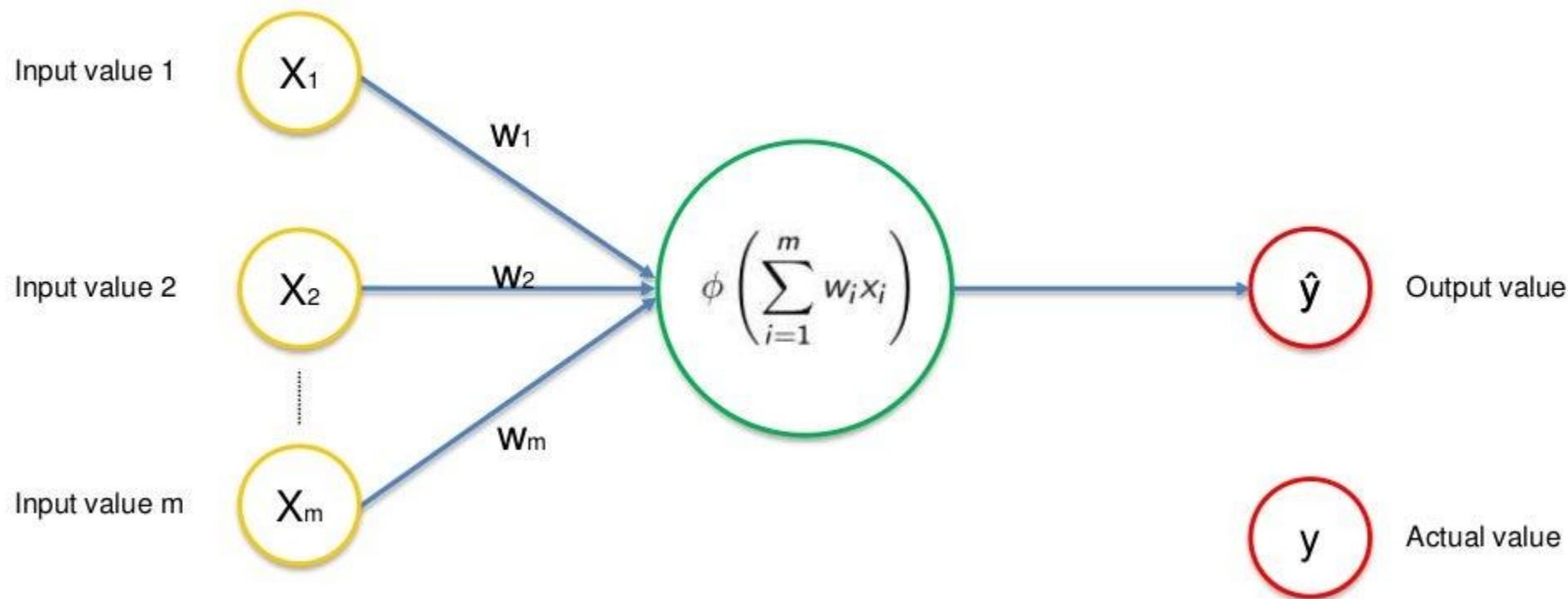


# How do NNs Learn?

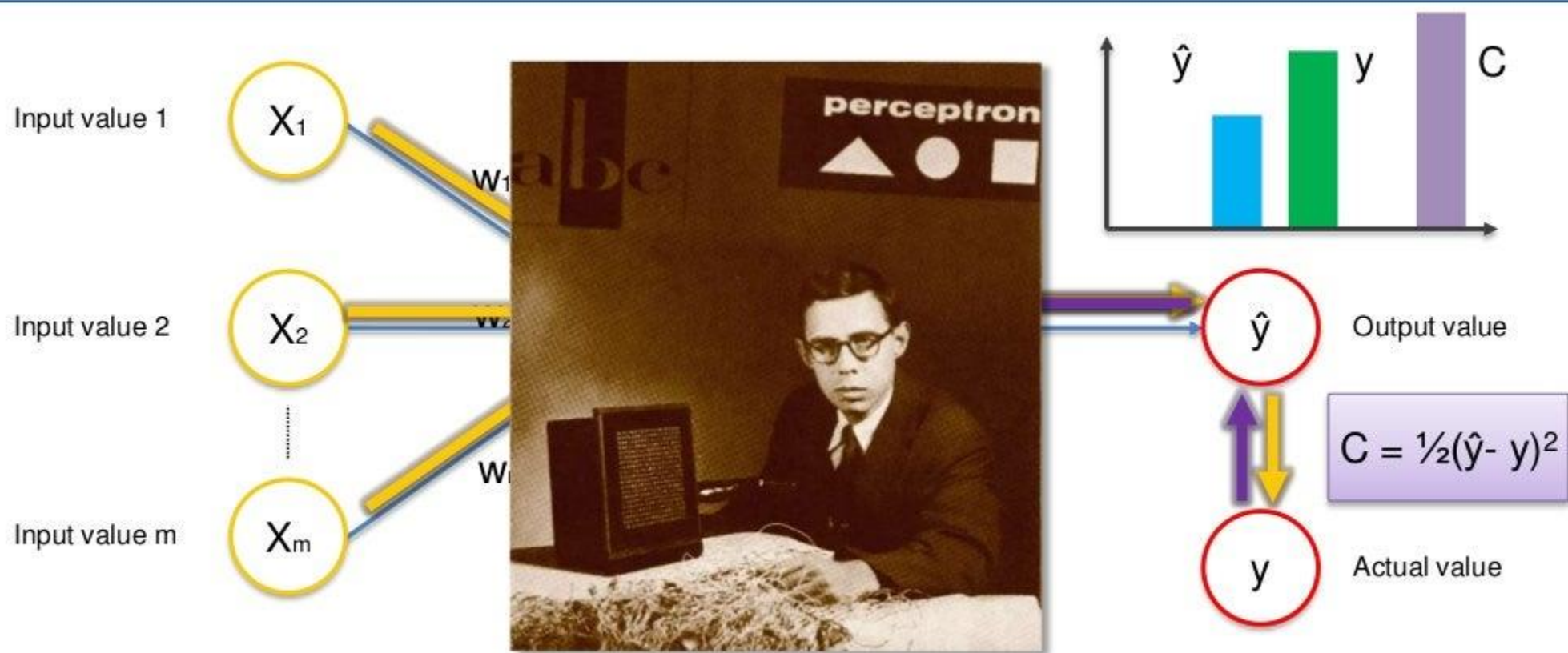
# How do Neural Networks learn?



# How do Neural Networks learn?

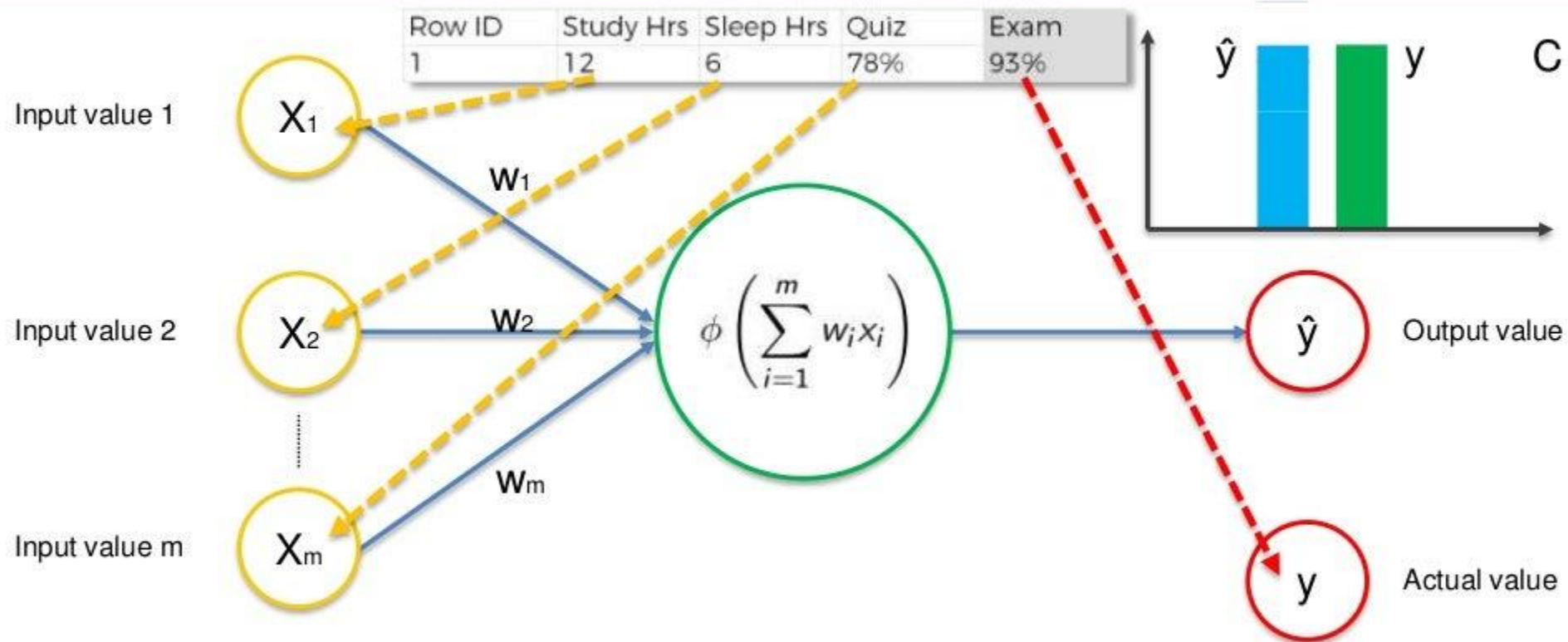


# How do Neural Networks learn?

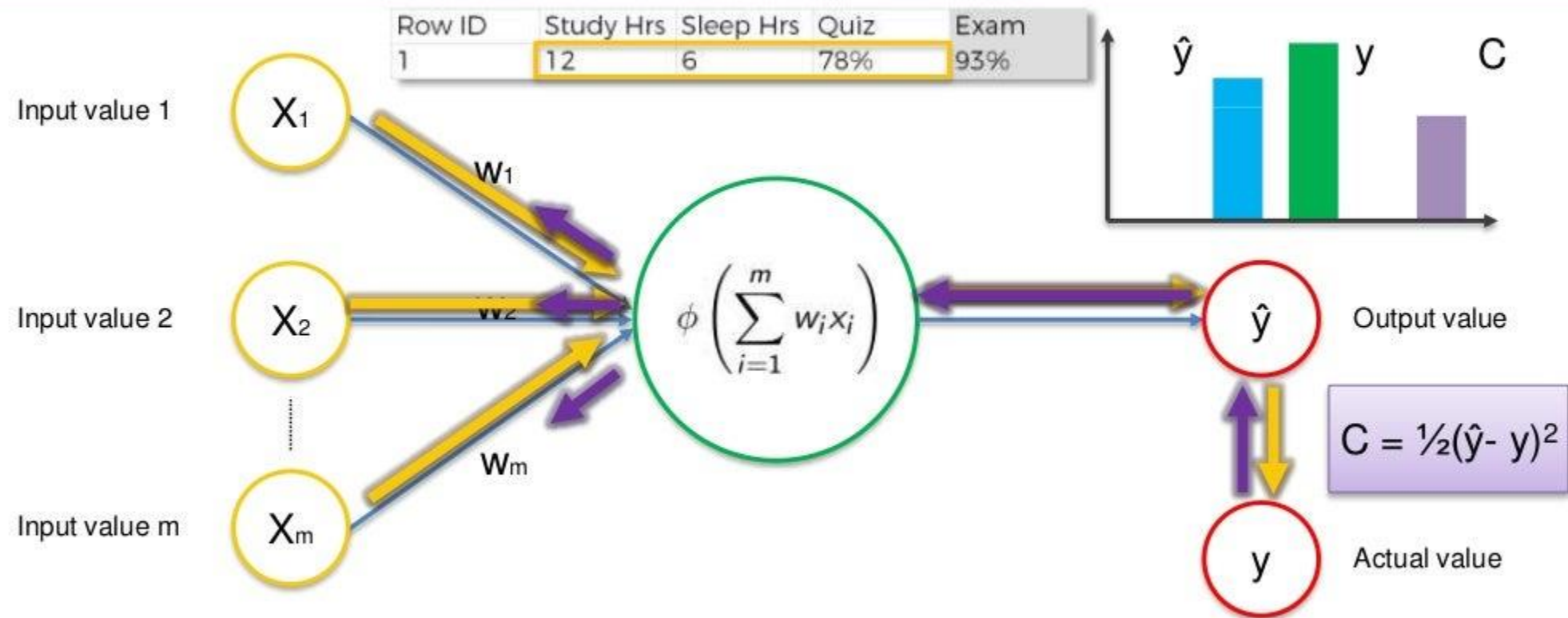




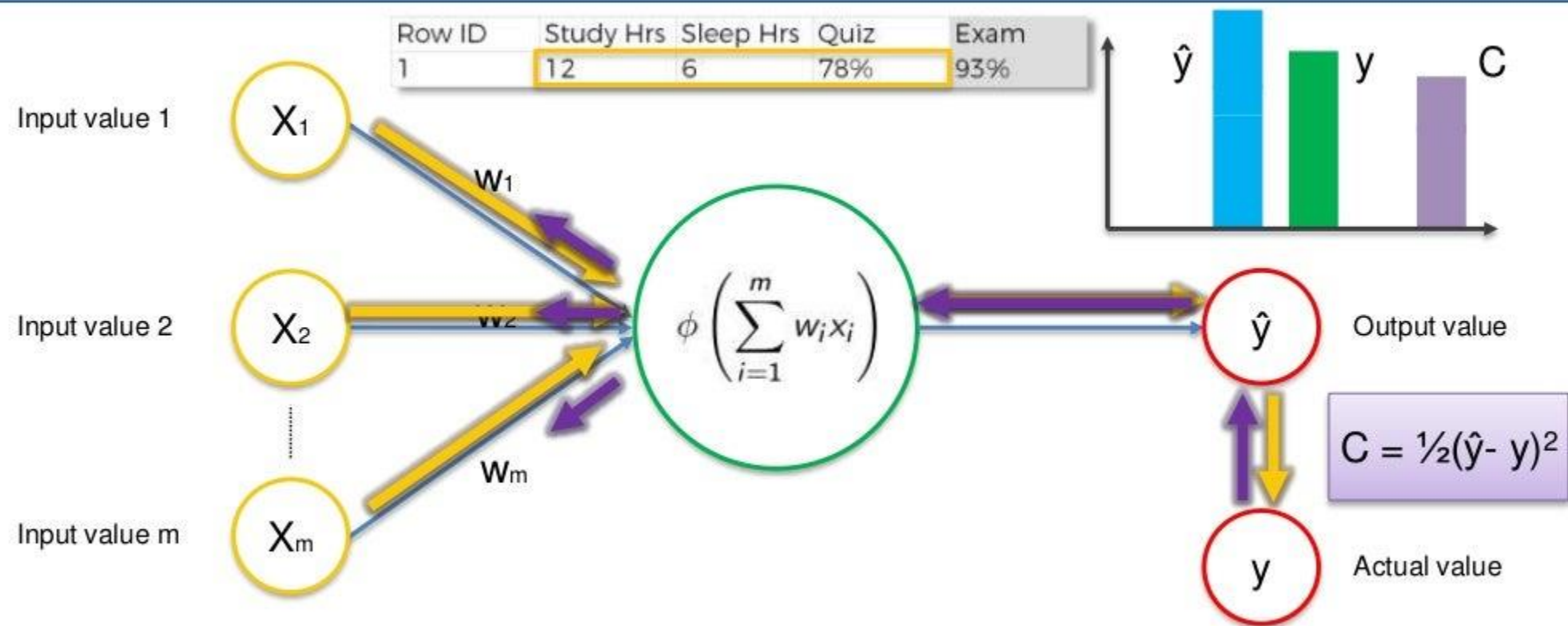
# How do Neural Networks learn?



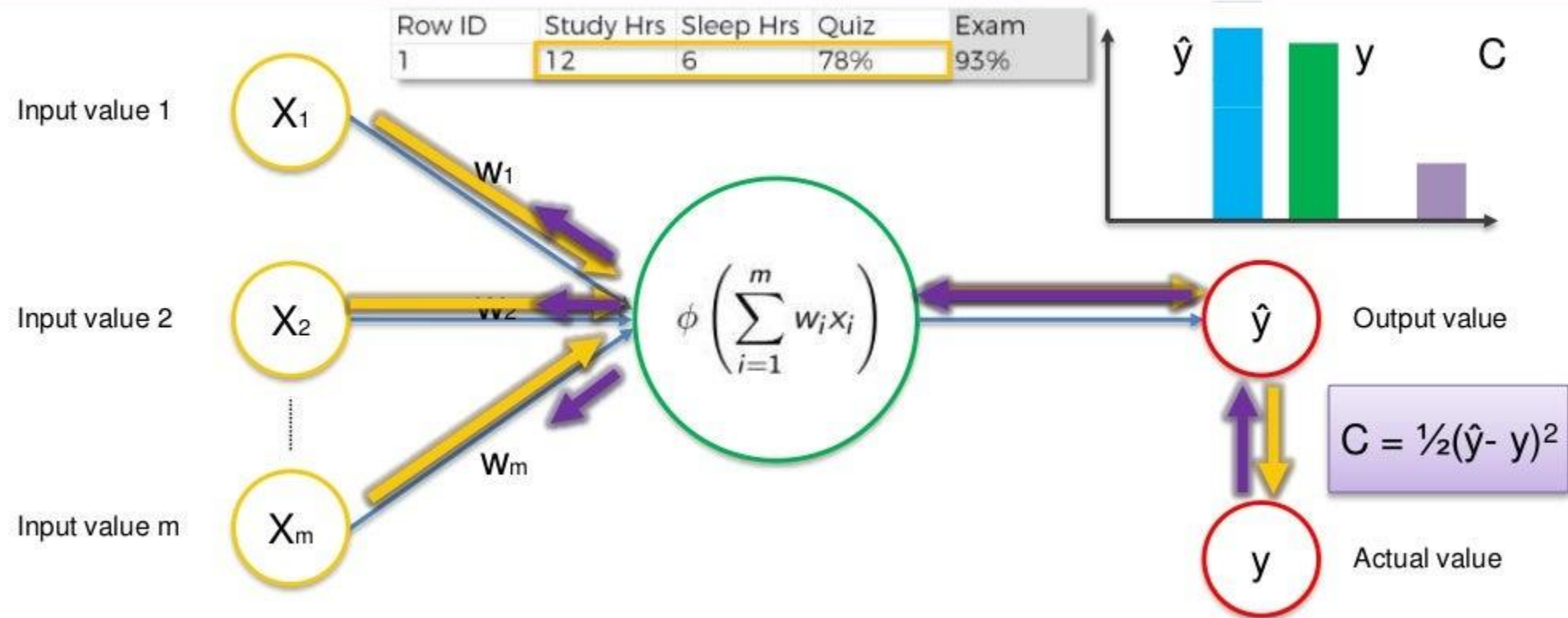
# How do Neural Networks learn?



# How do Neural Networks learn?

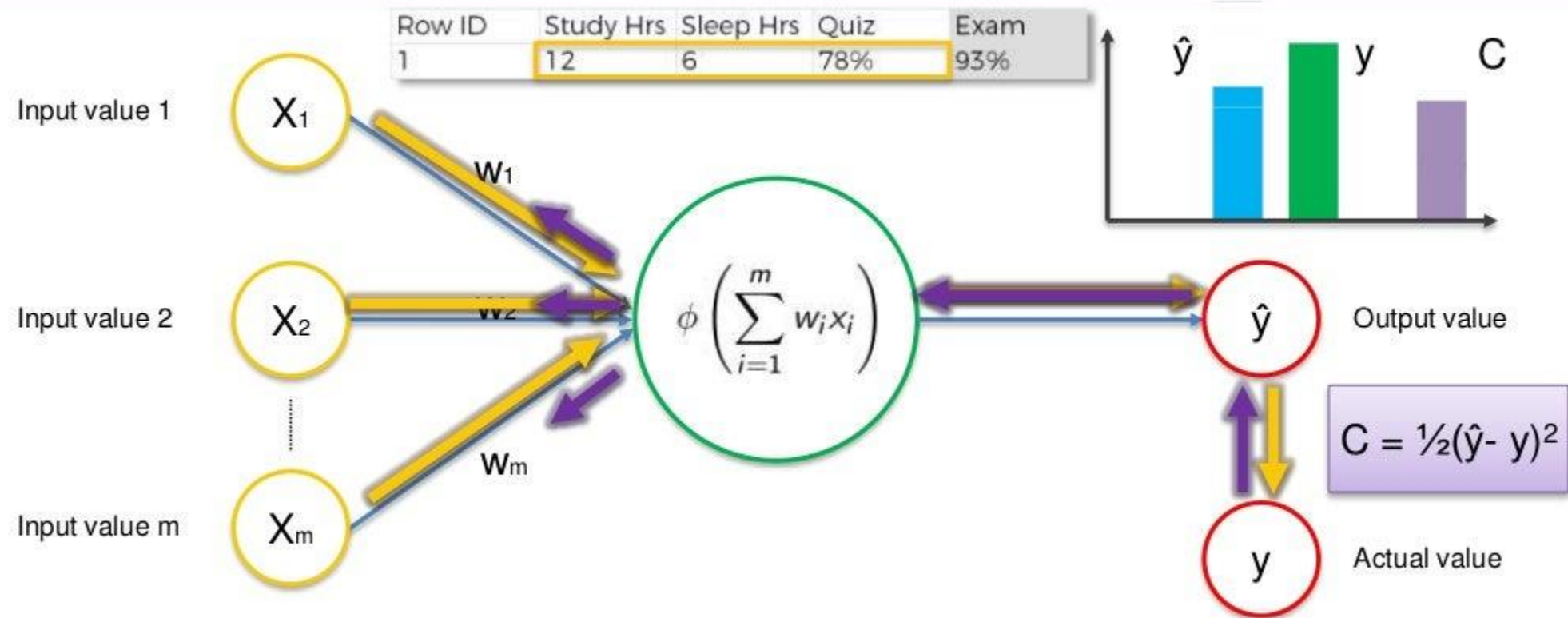


# How do Neural Networks learn?

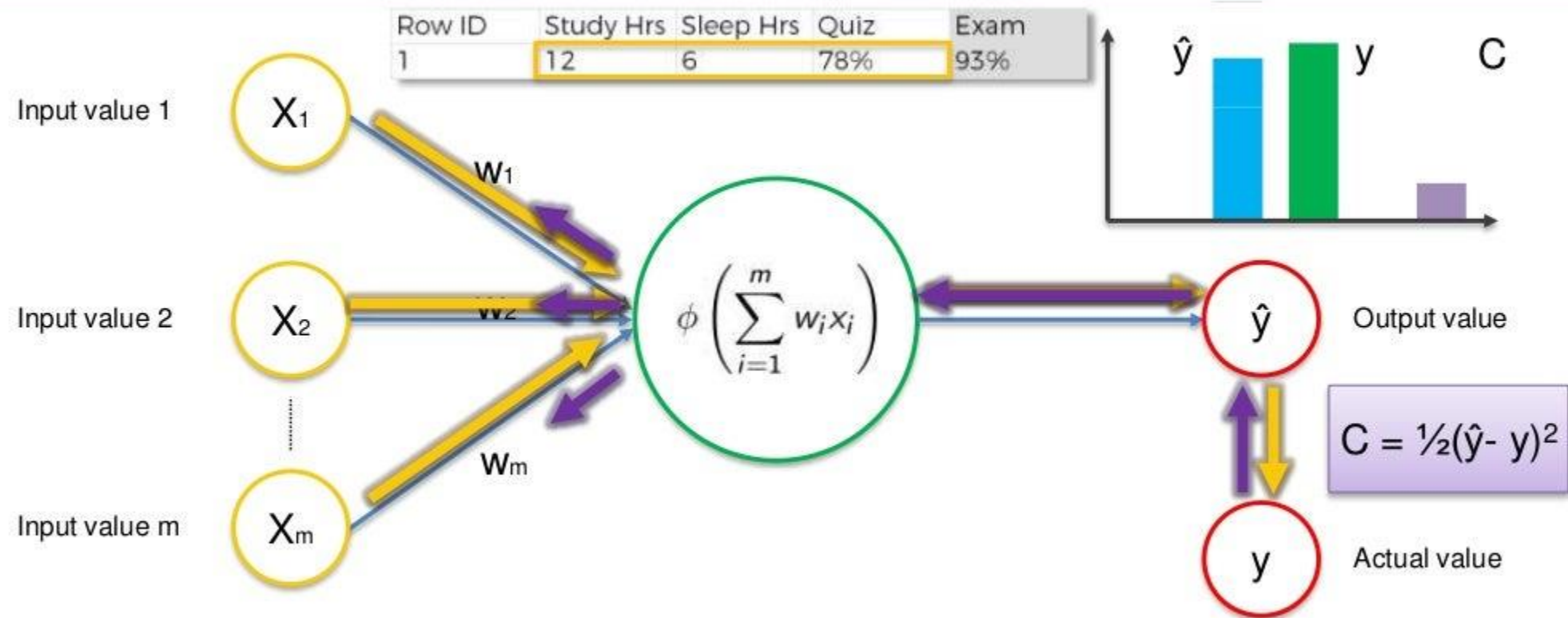




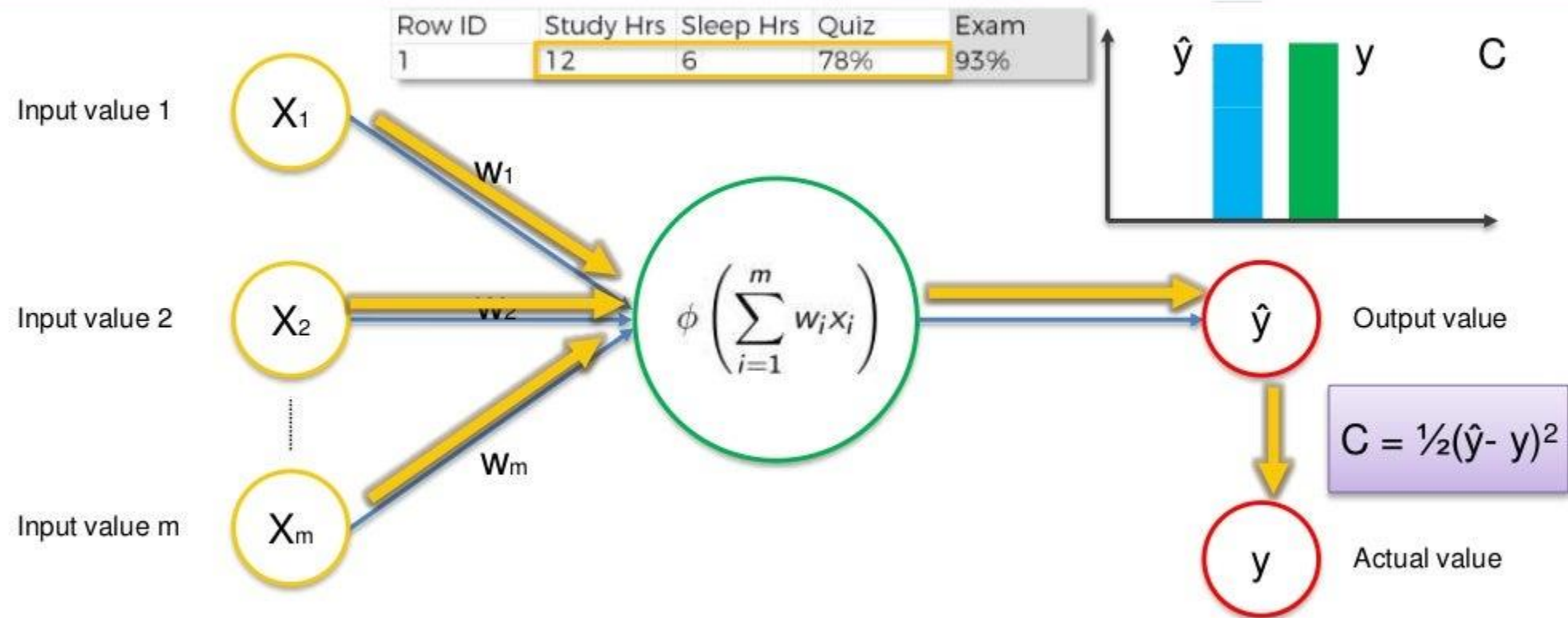
# How do Neural Networks learn?



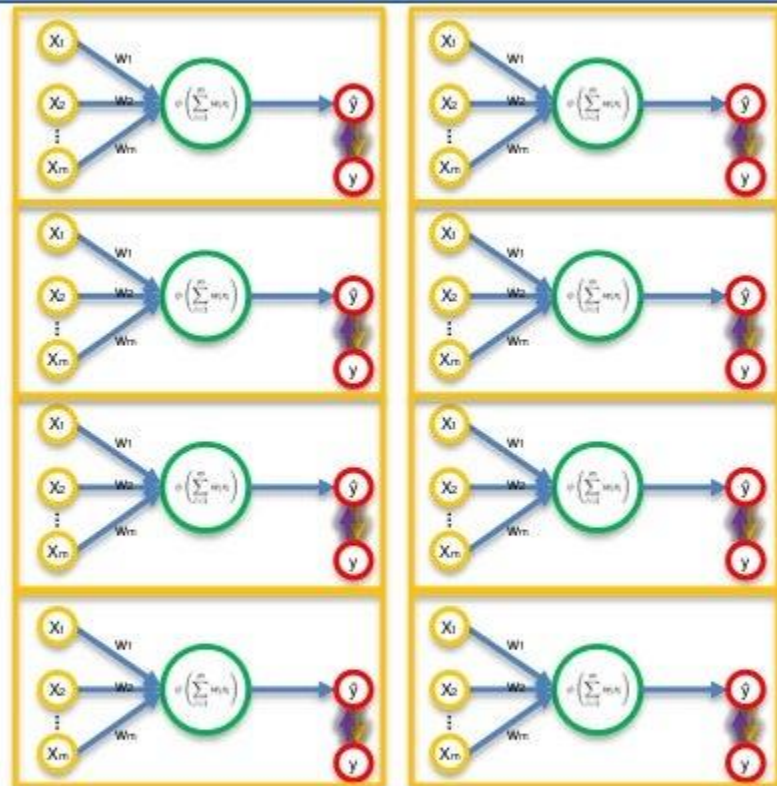
# How do Neural Networks learn?



# How do Neural Networks learn?

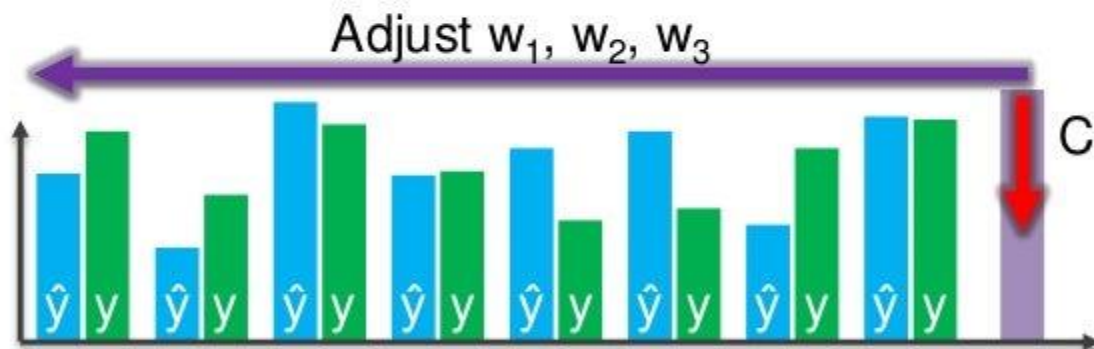


# How do Neural Networks learn?



Row ID	Study Hrs	Sleep Hrs	Quiz	Exam
1	12	6	78%	93%
2	22	6.5	24%	68%
3	115	4	100%	95%
4	31	9	67%	75%
5	0	10	58%	51%
6	5	8	78%	60%
7	92	6	82%	89%
8	57	8	91%	97%

$$C = \sum \frac{1}{2}(\hat{y} - y)^2$$





# How do Neural Networks learn?

## Additional Reading:

*A list of cost functions used in neural networks, alongside applications*

CrossValidated (2015)

Link:

<http://stats.stackexchange.com/questions/154879/a-list-of-cost-functions-used-in-neural-networks-alongside-applications>

