

Day 2: wrap up

1. From logistic regression to neural networks
2. Shallow and deep neural networks models
3. Multiclass classification and softmax regression



Recap from day 1 & 2

- What is learning? → find (approximate) the function that maps x to y
- Is deep learning “deep” because it investigates deep relationships in the data?
- How much do neural networks resemble the human brain?
- Trade width for depth (Hornik 1991 “universal approximation theorem”; $O(2^n)$ vs $O(\log(n))$)

