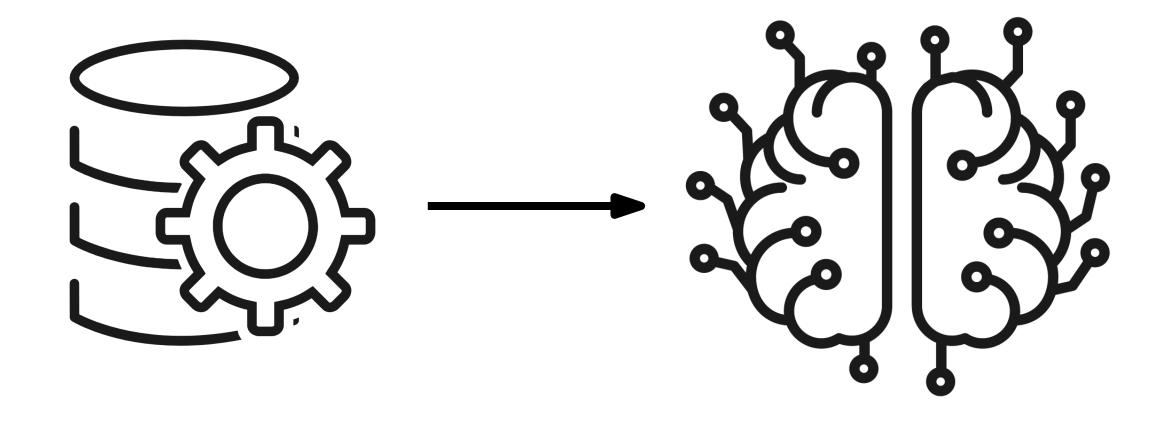
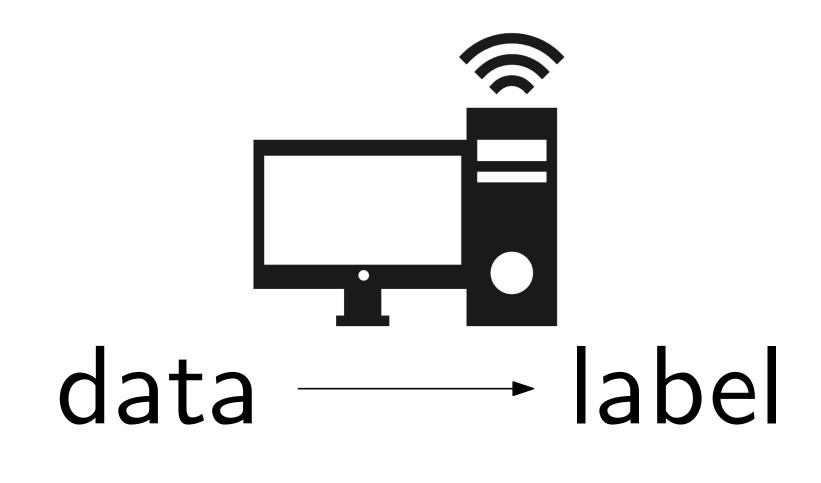
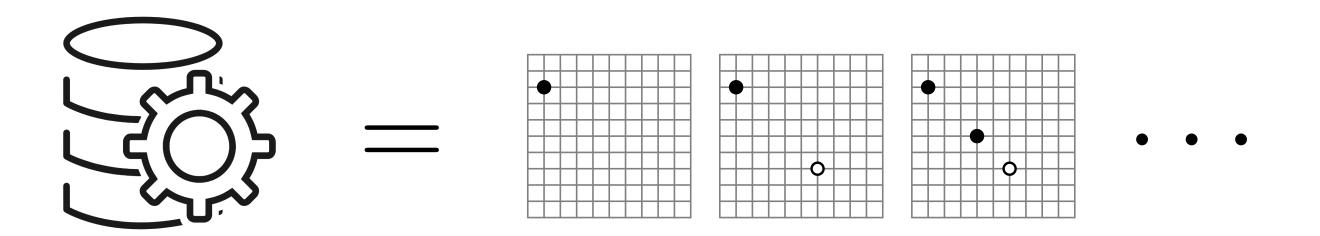
Learning from Data

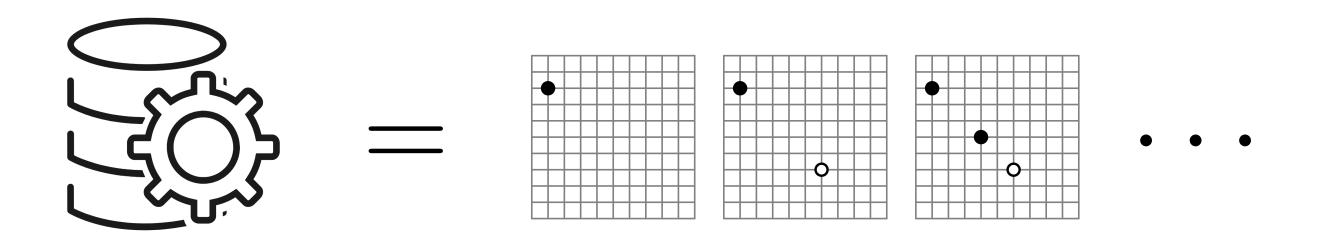


Supervised Learning









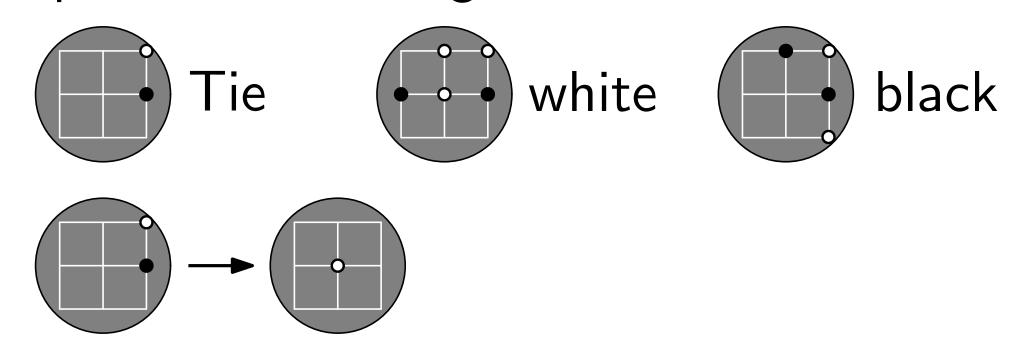
data = board state label = next move label = winner



Assignment 1

1 In Neural Networks, the input and the output is a vector.

Express the following data as a vector.



- 2 There are different ways to do this.

 Describe at least two different possibilities.
- 3 How can you use the trained network? (simplest ideas)



Post on Teams

Problem 1 garbage in -> garbage out

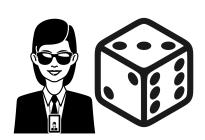
Problem 1 garbage in -> garbage out



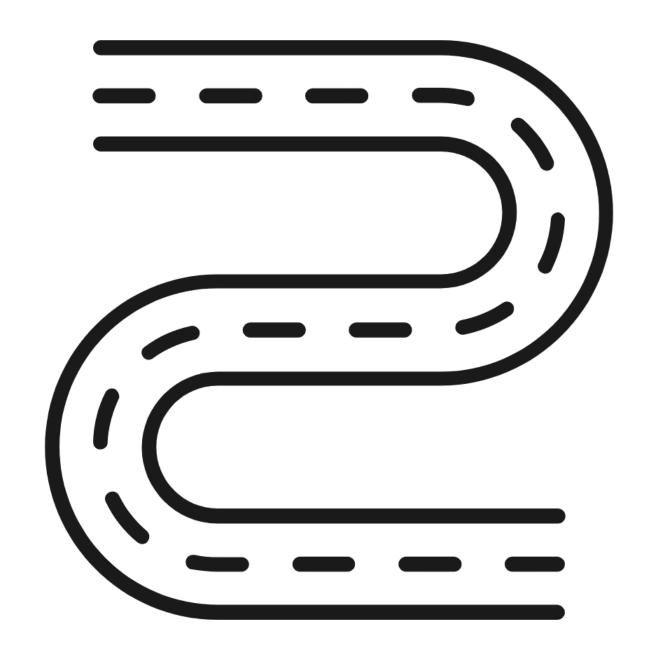


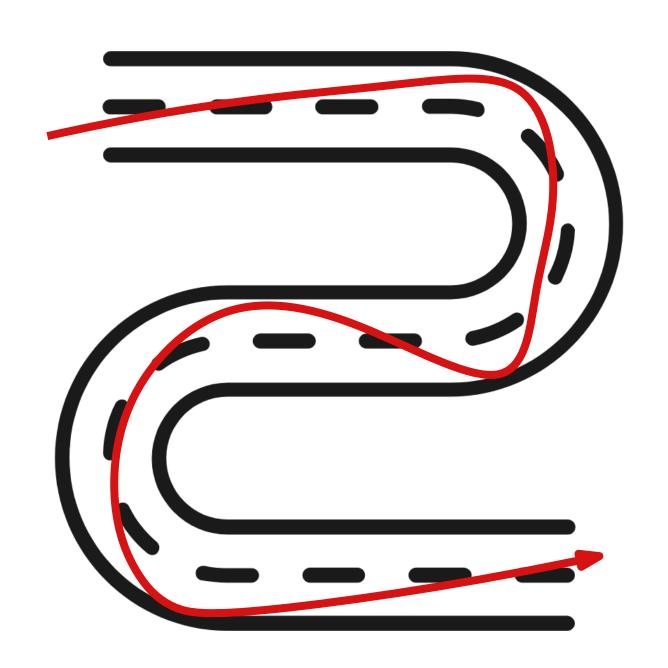
Problem 1 garbage in -> garbage out



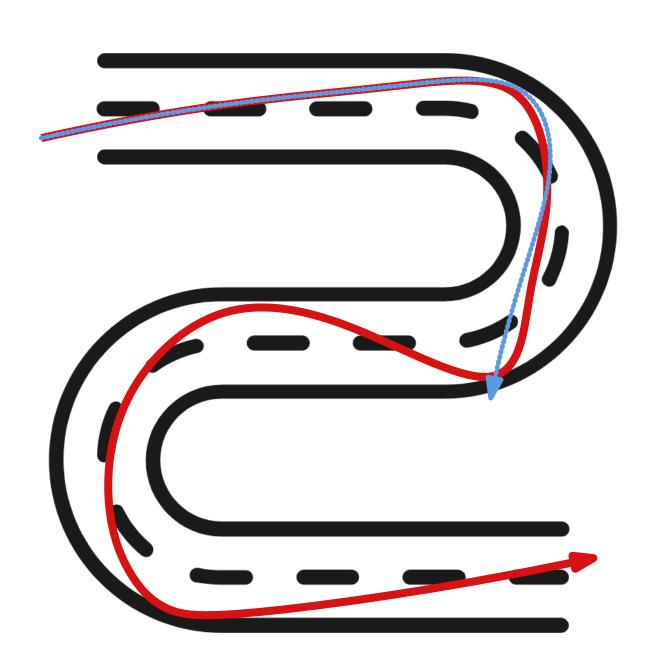


? copy bad behavior?

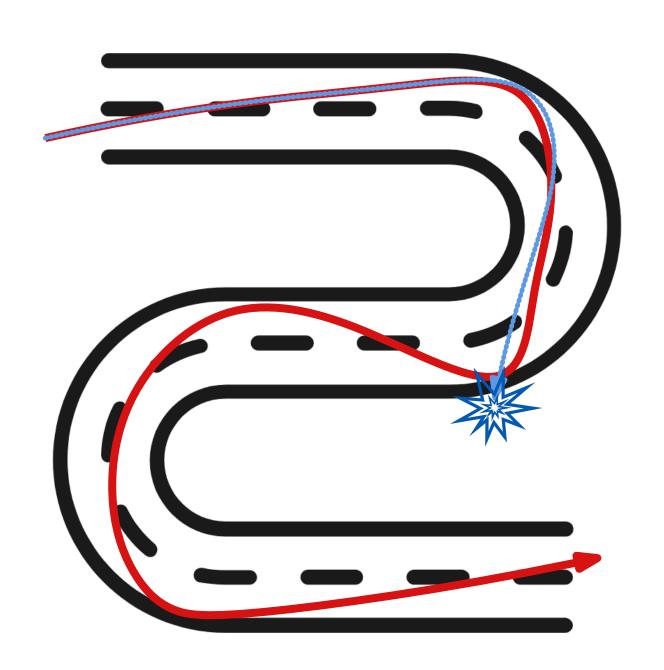




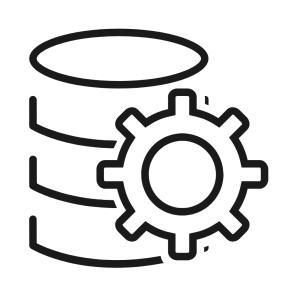
ideal route



ideal route network



ideal route network



quantity quality diversity



Assignment 2





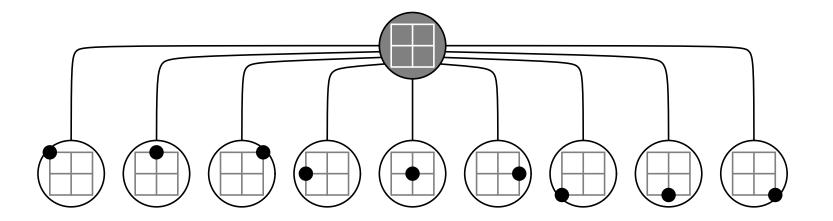
Post on Teams

Describe a scenario where it makes no sense to train a value-function out from the given data.



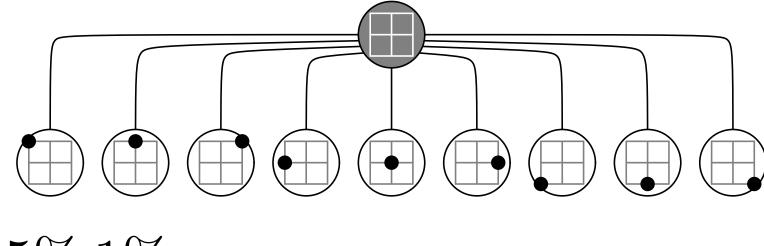


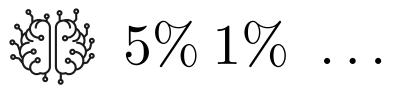
Reduce Branching





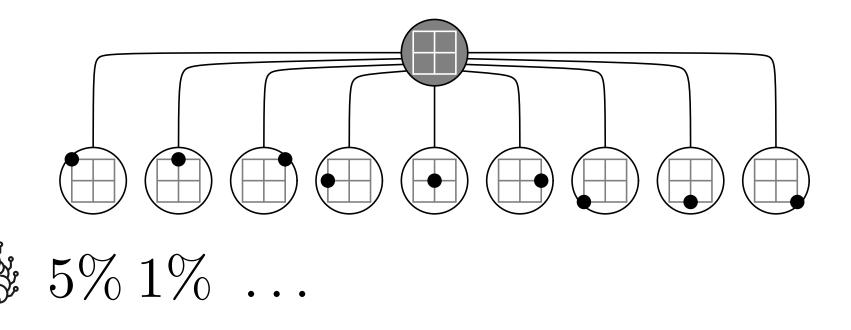
Reduce Branching







Reduce Branching



- according to probability
- only top 3 choices
- new upper confidence bound formula
 balance: score function + probability + confidence

