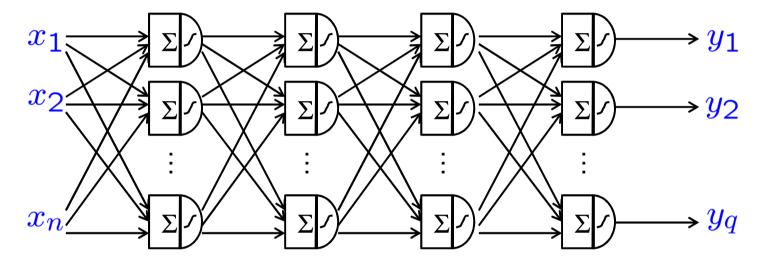
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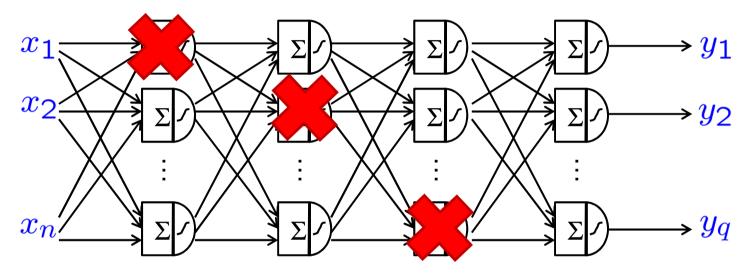






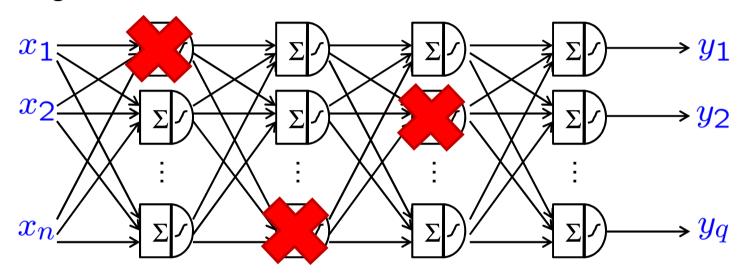






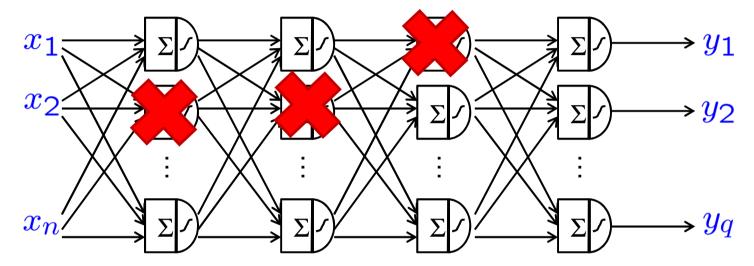






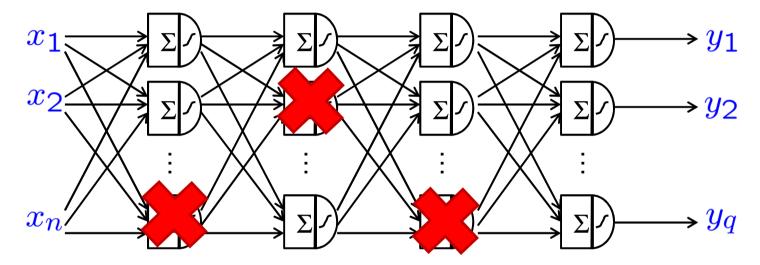






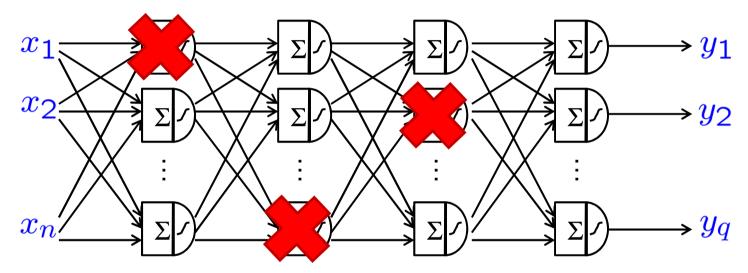












- dropout forces the neural network to store relevant information in a distributed way
- dropout reduces overfitting



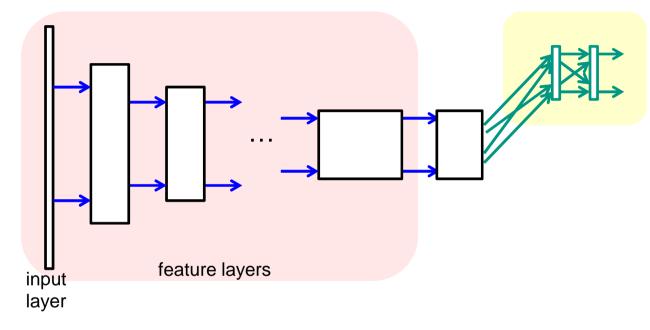


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• idea: reuse pre-trained network



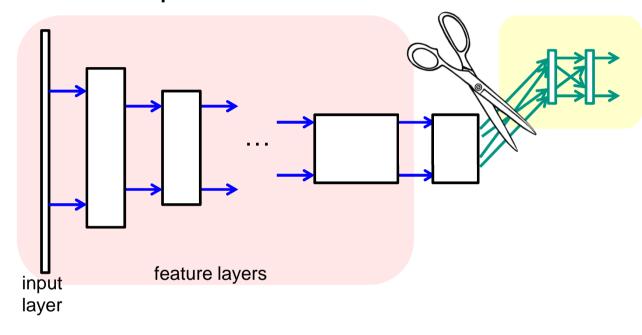
output layer other task, e.g. ImageNet classification

1. train other task with large training set





• idea: reuse pre-trained network

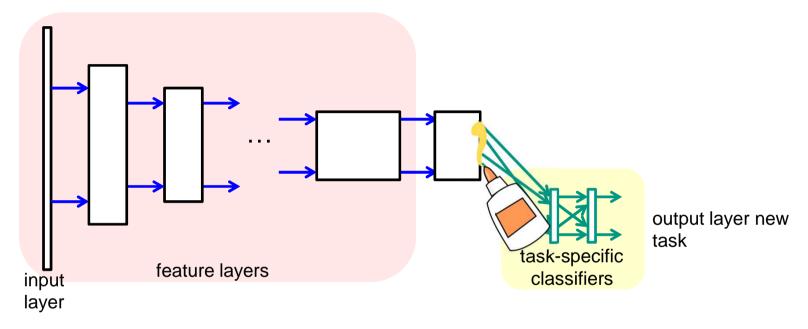


output layer other task, e.g. ImageNet classification

- 1. train other task with large training set
- 2. throw away classification layers of other task



• idea: reuse pre-trained network

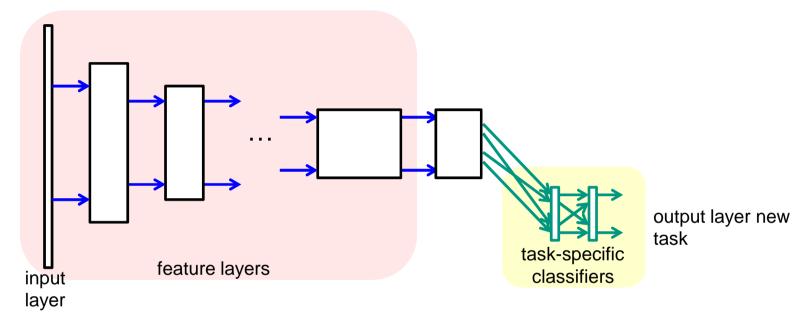


- 1. train other task with large training set
- 2. throw away classification layers of other task
- 3. create new classification layers for new task





• idea: reuse pre-trained network



- 1. train other task with large training set
- 2. throw away classification layers of other task
- 3. create new classification layers for new task
- train weights of new classification layer while preserving feature layers



