# Course

## Chapter 2

□□;

## Chapter 3

score p6 □□; margin p6 □□; loss function □□; Perceptron algorithm p8 □□; Test set p16 □□; Bias/variance p29,44 □□;

## Chapter 4

Similarity p17 □□;

## Chapter 5

K-means p17 □□; PCA p16 □□;

## Chapter 6

Nearest Neighbours p4 □□; probabilistic distribution p10 □□; joint probability p12 □□; expectation p14 □□; variance p14 □□; independence p16 □□; conditional independence p16 □□;

## Chapter 7

Entropy p8 □□; joint entropry p16 □□; conditional entropy p18 □□; mutual information p19 □□;

## Chapter 8

Information gain p23 □□; gain p23 □□; random forest p36 □□;

## Chapter 9

DFS p27 □□; BFS p30 □□; DFS-iterative deepening p33 □□; Dynamic programming p47 □□;

# Chapter 10

UFS p16 ☐☐;

# Chapter 11

# Chapter 12

$A^*$ p14 ☐☐; optimality p18 ☐☐; monotocity p22 ☐☐; dominance of heuristic p35 ☐☐; relaxation p40 ☐☐;

# Chapter 13

Bayes theorem p8 ☐☐; probabilistic graphical models p24 ☐☐;

# Chapter 14

aysians network three inferences problems p8 ☐☐; variable elimination p16 ☐☐;

# Chapter 15

Expectation Maximization (no need formula but example) p21 ☐☐;

# Chapter 16

cosine p16 ☐☐;

# Chapter 17

Markov decision process p21 ☐☐; policy p2 ☐☐;

# Chapter 18

Belleman equation p16 ☐☐; reinforcement learning p41 ☐☐;

# Chapter 19

Minimax p47 ☐☐; alpha-beta pruning p16 ☐☐;

# Chapter 20