第 2 章 降维

内容提要

- ❏ Definition of Theorem
- ❏ Ask for help
- ❏ Optimization Problem
- ❏ Property of Cauchy Series
- ❏ Angle of Corner

2.1 线性降维

2.1.1 主成分分析 (PCA)

Algorithm 1 An example for format For & While Loop in Algorithm

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1: **for** each $i \in [1,9]$ **do**
2:     initialize a tree T_i with only a leaf (the root);
3:         $T = T \cup T_i$;
4: **end for**
5: **for all** c such that $c \in RecentMBatch(E_{n-1})$ **do**
6:         $T = T \cup PosSample(c)$;
7: **end for**;
8: **for** $i = 1; i < n; i + +$ **do**
9:     // Your source here;
10: **end for**
11: **for** $i = 1$ to n **do**
12:     // Your source here;
13: **end for**
14: // Reusing recent base classifiers.
15: **while** $(|E_n| \leq L_1) and (D \neq \phi)$ **do**
16:     Selecting the most recent classifier c_i from D;
17:         $D = D - c_i$;
18:         $E_n = E_n + c_i$;
19: **end while**

> **定理 2.1 (theorem name)**
>
> 这是一个有名字和标签的定理。用2.1 来引用这个定理。　　　　　　　　　　　　　　　　　　　　　　　♡

2.2 非线性降维