机器学习笔记

感受经典算法之美

作者：刘昊

组织：哈尔滨工业大学

用心记录学习过程，方可于不经意处发现至美

目录

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

for each $i \in [1, 9]$ **do**
    initialize a tree T_i with only a leaf (the root);
    $T = T \cup T_i$;
end for
for all c such that $c \in RecentMBatch(E_{n-1})$ **do**
    $T = T \cup PosSample(c)$;
end for;
for $i = 1; i < n; i++$ **do**
    // Your source here;
end for
for $i = 1$ to n **do**
    // Your source here;
end for
// Reusing recent base classifiers.
while $(|E_n| \leq L_1) and (D \neq \phi)$ **do**
    Selecting the most recent classifier c_i from D;
    $D = D - c_i$;
    $E_n = E_n + c_i$;
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