**Week 3：机器学习基础**

**基础**

<https://ailearning.apachecn.org/#/docs/ml/1>

**KNN**

<https://ailearning.apachecn.org/ailearning/#/docs/ml/2>

<https://zhuanlan.zhihu.com/p/28656126>

时间允许的情况下，希望你自己重写和复现海伦约会的KNN

**Decision Tree**

<https://cuijiahua.com/blog/2017/11/ml_2_decision_tree_1.html>

<https://cuijiahua.com/blog/2017/11/ml_3_decision_tree_2.html>

**验收要求**

手写决策树完成对iris数据集的分类

**Native Bayes**

<https://cuijiahua.com/blog/2017/11/ml_4_bayes_1.html>

**SVM**

<https://cuijiahua.com/blog/2017/11/ml_8_svm_1.html>

<https://cuijiahua.com/blog/2017/11/ml_9_svm_2.html>

**Apriori**

<https://ailearning.apachecn.org/#/docs/ml/11>

**FP-Growth**

<https://ailearning.apachecn.org/#/docs/ml/12>

**PCA降维**

<https://ailearning.apachecn.org/ailearning/#/docs/ml/13>

<https://zhuanlan.zhihu.com/p/57062158>

**验收要求**

对ex7faces.mat进行PCA降维实现，要求从1024维降到100维

**SVD奇异值分解**

<https://zhuanlan.zhihu.com/p/130439386>

<https://www.imooc.com/article/267351>