**1、源码地址：**

https://github.com/ispras/pu4spark

https://github.com/BlancRay/PUAdapter

**简介：**

为Apache Spark MLlib构建的一个PU learning算法库

**基于算法：**

NB,SPC（Rocchio的变种）,NB+EM,SPC+EM

Fusilier, D. H., Montes-y-Gómez, M., Rosso, P., & Cabrera, R. G. (2015). Detecting positive and negative deceptive opinions using PU-learning. Information Processing & Management, 51(4), 433-443.

**2、源码地址：**

https://github.com/jperla/pulearning

**基于算法：**

逻辑回归

**3、源码地址：**

https://github.com/aldro61/pu-learning

**简介：**

PU learning的一个机器学习工具和算法的集合

**基于算法：**

Elkan, Charles, and Keith Noto. "Learning classifiers from only positive and unlabeled data." Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining. ACM, 2008.