

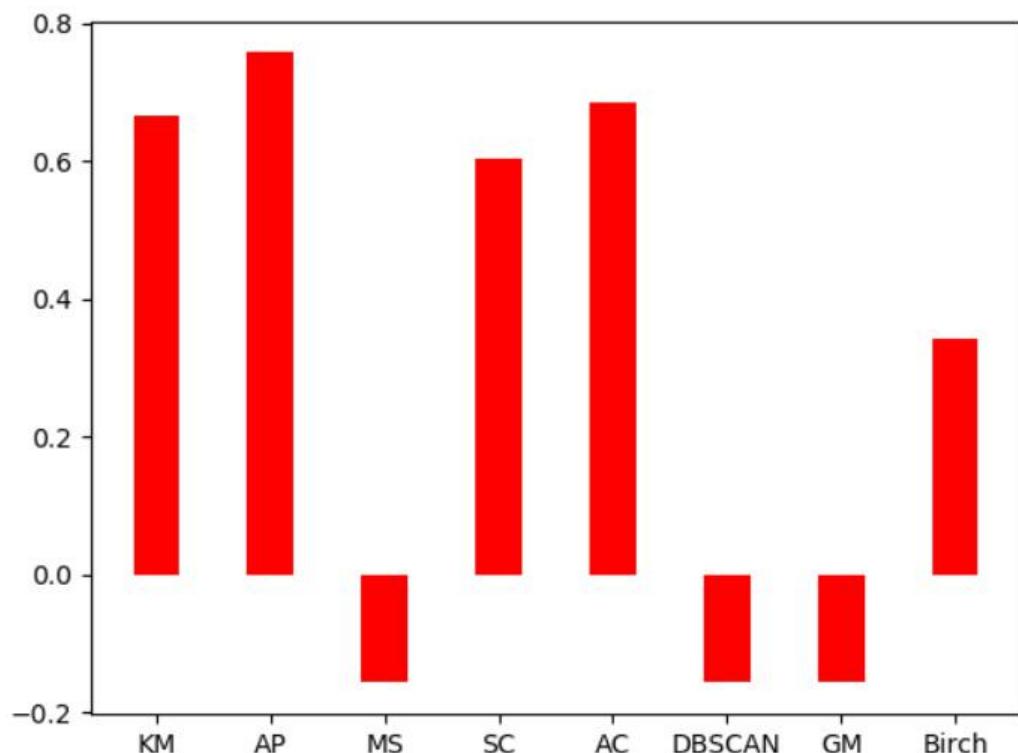
# Homework5 报告

霍瑜 201605130119

## 实验结果：

由于跑全部数据容易报内存，故只跑了部分数据，以下 K 为测试数据大小

(1) K = 1000



K\_means 0.666520869266432

AffinityPropagation: 0.7574110369084625

MeanShift: -0.15625

spectral\_clustering: 0.604381682398685

AgglomerativeClustering: 0.6863006637608844

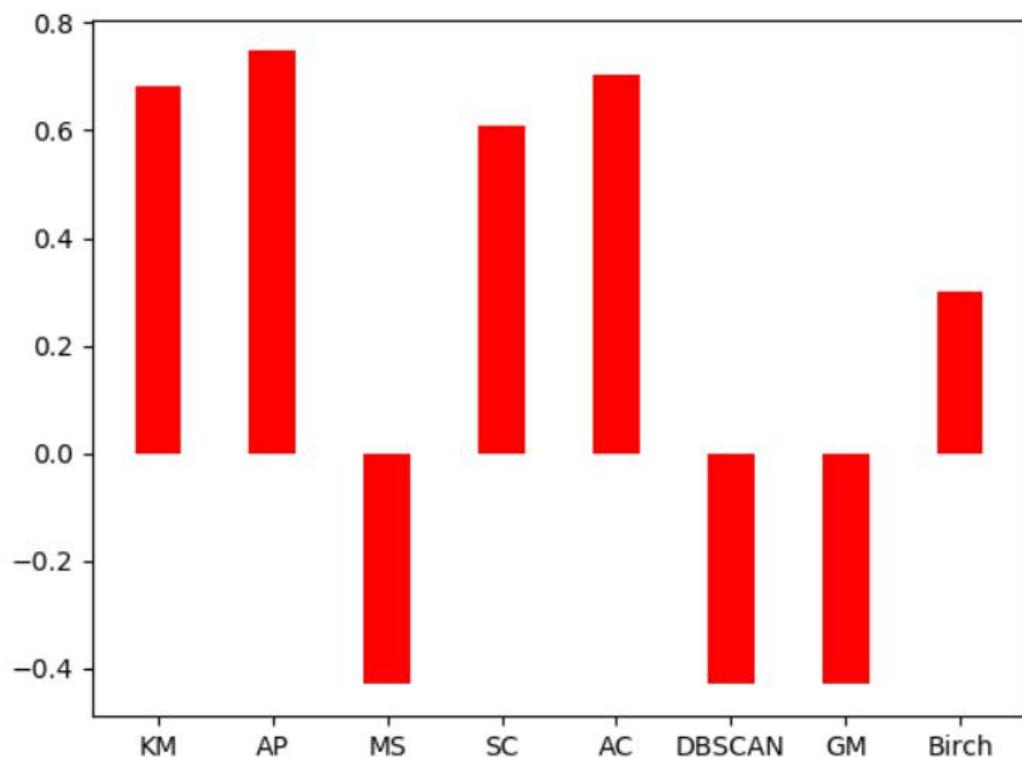
DBSCAN: -0.15625

GaussianMixture: -0.15625

Birch: 0.34301125966064144

三个负值因全部都聚为一类

(2) K = 2000



K\_means: 0.6812488032789745

AffinityPropagation: 0.7474471818433555

MeanShift: -0.4296875

spectral\_clustering: 0.6081608342124368

AgglomerativeClustering: 0.7021422120759936

DBSCAN: -0.4296875

GaussianMixture: -0.4296875

Birch: 0.29898088017615193