

cf改进方案

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去除流行度降权

✎ 去除流行度降权后，虽然cf的长尾挖掘效果降低，但是推荐召回率、精确度、销售额都有明显的提升。

去除流行度降权的CF

*****推荐[CF_test]*****

***** 召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

* * * * *
[0.431970][0.008673][7208084.544488][0.477530][0.831719][1.000000][16.995750][26.566950][0.000830],[0.001980] *****

*****mainpageTOP召回*****

***** 召回,准确率,销售额,top50覆盖率,top100覆盖率,top50多样性,top100多样性*****

***** [0.073546][0.001505][1535240.763065][0.006252][0.012503][27.000000][37.000000] *****

*****allTOP召回*****

***** 召回,准确率,销售额,top50覆盖率,top100覆盖率,top50多样性,top100多样性*****

***** [0.188712][0.003409][2737023.133091][0.006252][0.012503][21.000000][27.000000] *****

*****sevenDaysTOP召回*****

***** 召回,准确率,销售额,top50覆盖率,top100覆盖率,top50多样性,top100多样性*****

***** [0.248149][0.004302][3142282.812500][0.006252][0.012503][19.000000][28.000000] *****

去除流行度降权的CF

lowRank = 0, highRank = 19

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.339469][0.006476][5655657.483086][0.778899][1.000000][1.000000][8.436760][8.436760][0.044100],[0.142030] *****

推荐[CF_test]

lowRank = 20, highRank = 39

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.039770][0.000968][693575.250478][0.770585][1.000000][1.000000][10.411996][10.411996][0.010070],[0.042812] *****

推荐[CF_test]

lowRank = 40, highRank = 59

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.022822][0.000546][383818.520432][0.767938][1.000000][1.000000][10.838790][10.838790][0.005710],[0.023411] *****

推荐[CF_test]

lowRank = 60, highRank = 79

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.016251][0.000377][267242.840297][0.762535][1.000000][1.000000][11.158783][11.158783][0.003780],[0.015211] *****

推荐[CF_test]

lowRank = 80, highRank = 99

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.013069][0.000293][198882.750189][0.763956][1.000000][1.000000][11.507446][11.507446][0.002460],[0.010691] *****

标准CF

*****推荐[CF_test]*****

***** 召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

* * * * *
[0.410266][0.008307][6990318.643489][0.402697][0.788954][1.000000][13.774388][21.609906][0.005260],[0.020020] *****

*****mainpageTOP召回*****

***** 召回,准确率,销售额,top50覆盖率,top100覆盖率,top50多样性,top100多样性*****

***** [0.073546][0.001505][1535240.763065][0.006252][0.012503][27.000000][37.000000] *****

*****allTOP召回*****

***** 召回,准确率,销售额,top50覆盖率,top100覆盖率,top50多样性,top100多样性*****

***** [0.188712][0.003409][2737023.133091][0.006252][0.012503][21.000000][27.000000] *****

*****sevenDaysTOP召回*****

***** 召回,准确率,销售额,top50覆盖率,top100覆盖率,top50多样性,top100多样性*****

***** [0.248149][0.004302][3142282.812500][0.006252][0.012503][19.000000][28.000000] *****

标准CF

lowRank = 0, highRank = 19

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.339117][0.006590][5709055.122993][0.750137][1.000000][1.000000][7.387354][7.387354][0.087761],[0.249092] *****

推荐[CF_test] *****

lowRank = 20, highRank = 39

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.031711][0.000779][571289.050332][0.754254][1.000000][1.000000][8.040622][8.040622][0.076503],[0.217609] *****

推荐[CF_test] *****

lowRank = 40, highRank = 59

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.017062][0.000411][307049.969931][0.754987][1.000000][1.000000][8.456057][8.456057][0.059154],[0.176771] *****

推荐[CF_test] *****

lowRank = 60, highRank = 79

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.011934][0.000283][216807.260130][0.754748][1.000000][1.000000][8.954416][8.954416][0.036953],[0.140811] *****

推荐[CF_test] *****

lowRank = 80, highRank = 99

召回,准确率,销售额,top10覆盖率,top50覆盖率,top100覆盖率,top50多样性,top100多样性,2个以下百分比,4个以下百分比*****

[0.009961][0.000233][178685.560102][0.752189][1.000000][1.000000][9.363213][9.363213][0.028553],[0.112870] *****

THE END

THANK YOU!