Table1:一共1754884条记录，其中正样本数为75382（Date\_received和Date字段非null）

一共有539438个用户（user\_id字段），9739个优惠券（coupon\_id字段），领了的券有1053282条记录（Date\_received字段非null）。

Table2:一共11429826条记录，其中正样本数为216459（Date\_received和Date字段非null）

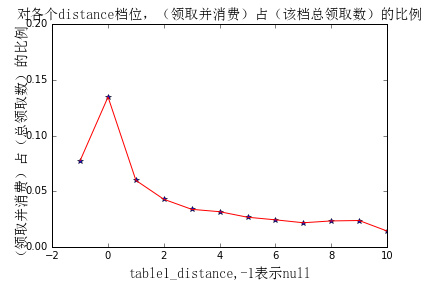
一共有762825个用户（user\_id字段），27748个优惠券（coupon\_id字段），领了的券有872357条记录(Date\_received字段非null)。

Table2:领到的券中（872357），action为1（购买）的有216459条，action为2（领取）的有655898条.

Table1:

Distance字段

|  |  |  |  |
| --- | --- | --- | --- |
| distance | 正样本中 | 所有领到的券中 | 占比 |
| null | 8217 | 106003 | 0.077517 |
| 0 | 46852 | 348179 | 0.134563 |
| 1 | 8602 | 143871 | 0.05979 |
| 2 | 3485 | 81279 | 0.042877 |
| 3 | 1861 | 54944 | 0.033871 |
| 4 | 1287 | 40542 | 0.031745 |
| 5 | 831 | 31010 | 0.026798 |
| 6 | 603 | 24658 | 0.024455 |
| 7 | 430 | 19682 | 0.021847 |
| 8 | 385 | 16404 | 0.02347 |
| 9 | 333 | 13961 | 0.023852 |
| 10 | 2496 | 172749 | 0.014449 |



Discount\_rate字段

|  |  |  |  |
| --- | --- | --- | --- |
| discount\_rate | 正样本中 | 所有领到的优惠券中 | 占比 |
| 150:05:00 | 2 | 7 | 0.285714 |
| 5:01 | 641 | 2526 | 0.253761 |
| 10:01 | 4054 | 17842 | 0.227217 |
| 20:10 | 101 | 514 | 0.196498 |
| 0.8 | 635 | 3441 | 0.184539 |
| 200:100 | 2 | 12 | 0.166667 |
| 20:01 | 8280 | 51705 | 0.160139 |
| 30:01:00 | 2561 | 17654 | 0.145066 |
| 20:05 | 12471 | 91013 | 0.137024 |
| 100:50:00 | 233 | 1774 | 0.131342 |
| 10:05 | 3302 | 25925 | 0.127367 |
| 0.95 | 2521 | 20568 | 0.122569 |
| 150:30:00 | 79 | 654 | 0.120795 |
| 50:30:00 | 1 | 9 | 0.111111 |
| 0.5 | 20 | 186 | 0.107527 |
| 50:01:00 | 311 | 3354 | 0.092725 |
| 30:05:00 | 23368 | 270712 | 0.086321 |
| 0.9 | 616 | 8085 | 0.07619 |
| 0.7 | 4 | 54 | 0.074074 |
| 100:20:00 | 1047 | 14297 | 0.073232 |
| 300:20:00 | 4 | 56 | 0.071429 |
| 100:01:00 | 37 | 537 | 0.068901 |
| 0.85 | 43 | 649 | 0.066256 |
| 50:05:00 | 3073 | 47379 | 0.06486 |
| 100:05:00 | 314 | 5053 | 0.062141 |
| 50:20:00 | 485 | 8203 | 0.059125 |
| 0.2 | 6 | 110 | 0.054545 |
| 300:50:00 | 11 | 206 | 0.053398 |
| 200:05:00 | 3 | 57 | 0.052632 |
| 0.6 | 3 | 58 | 0.051724 |
| 200:10:00 | 28 | 575 | 0.048696 |
| 50:10:00 | 1242 | 28452 | 0.043652 |
| 300:10:00 | 1 | 23 | 0.043478 |
| 30:20:00 | 1 | 24 | 0.041667 |
| 0.75 | 5 | 121 | 0.041322 |
| 100:10:00 | 5550 | 182554 | 0.030402 |
| 150:50:00 | 9 | 306 | 0.029412 |
| 30:10:00 | 371 | 12692 | 0.029231 |
| 100:30:00 | 1033 | 38196 | 0.027045 |
| 200:50:00 | 132 | 5585 | 0.023635 |
| 150:10:00 | 121 | 5325 | 0.022723 |
| 200:20:00 | 1731 | 111046 | 0.015588 |
| 300:30:00 | 419 | 28979 | 0.014459 |
| 150:20:00 | 239 | 17437 | 0.013706 |
| 200:30:00 | 272 | 29327 | 0.009275 |

Table2：

Discount\_rate字段

|  |  |  |  |
| --- | --- | --- | --- |
| discount\_rate | 正样本中 | 所有领到的优惠券中 | 占比 |
| 500:300 | 16 | 16 | 1 |
| 800:500 | 5 | 5 | 1 |
| fixed | 131546 | 131546 | 1 |
| 150:100 | 606 | 2266 | 0.267432 |
| 1000:05:00 | 7 | 29 | 0.241379 |
| 100:05:00 | 3273 | 15141 | 0.216168 |
| 50:30:00 | 2698 | 12977 | 0.207906 |
| 200:01:00 | 238 | 1222 | 0.194763 |
| 200:05:00 | 312 | 1639 | 0.19036 |
| 100:01:00 | 619 | 3399 | 0.182112 |
| 30:05:00 | 903 | 5120 | 0.176367 |
| 150:05:00 | 1732 | 10296 | 0.168221 |
| 1000:20:00 | 167 | 1013 | 0.164857 |
| 200:30:00 | 878 | 5398 | 0.162653 |
| 50:01:00 | 5607 | 34792 | 0.161158 |
| 800:10:00 | 25 | 157 | 0.159236 |
| 10:05 | 6389 | 40954 | 0.156004 |
| 500:20:00 | 693 | 4482 | 0.154618 |
| 10:01 | 1021 | 6997 | 0.14592 |
| 30:01:00 | 2395 | 17022 | 0.1407 |
| 500:10:00 | 177 | 1260 | 0.140476 |
| 200:10:00 | 2177 | 15976 | 0.136267 |
| 20:10 | 6769 | 50631 | 0.133693 |
| 100:20:00 | 250 | 1870 | 0.13369 |
| 50:20:00 | 384 | 2974 | 0.129119 |
| 150:10:00 | 4268 | 33615 | 0.126967 |
| 800:20:00 | 128 | 1010 | 0.126733 |
| 300:10:00 | 918 | 7247 | 0.126673 |
| 200:100 | 358 | 2834 | 0.126323 |
| 20:05 | 249 | 2013 | 0.123696 |
| 5:01 | 5155 | 42828 | 0.120365 |
| 1000:10:00 | 35 | 291 | 0.120275 |
| 1000:100 | 478 | 4135 | 0.115599 |
| 150:20:00 | 1502 | 13016 | 0.115396 |
| 300:100 | 361 | 3147 | 0.114712 |
| 50:10:00 | 3212 | 28312 | 0.11345 |
| 500:100 | 572 | 5274 | 0.108457 |
| 50:05:00 | 7510 | 70964 | 0.105828 |
| 1000:300 | 48 | 456 | 0.105263 |
| 1000:50:00 | 256 | 2437 | 0.105047 |
| 150:01:00 | 114 | 1111 | 0.10261 |
| 300:05:00 | 105 | 1031 | 0.101843 |
| 500:30:00 | 271 | 2663 | 0.101765 |
| 1000:30:00 | 91 | 908 | 0.10022 |
| 300:01:00 | 15 | 160 | 0.09375 |
| 100:10:00 | 3853 | 42047 | 0.091636 |
| 200:50:00 | 462 | 5099 | 0.090606 |
| 300:20:00 | 1024 | 11357 | 0.090165 |
| 200:20:00 | 3106 | 34568 | 0.089852 |
| 500:05:00 | 24 | 268 | 0.089552 |
| 800:100 | 506 | 5799 | 0.087256 |
| 800:50:00 | 550 | 6732 | 0.081699 |
| 300:50:00 | 1663 | 21655 | 0.076795 |
| 30:20:00 | 3499 | 45889 | 0.076249 |
| 100:50:00 | 2468 | 32607 | 0.075689 |
| 300:30:00 | 1185 | 15658 | 0.07568 |
| 100:30:00 | 46 | 634 | 0.072555 |
| 500:50:00 | 2146 | 29680 | 0.072305 |
| 20:01 | 392 | 5739 | 0.068305 |
| 800:30:00 | 20 | 297 | 0.06734 |
| 150:30:00 | 197 | 3284 | 0.059988 |
| 30:10:00 | 318 | 5378 | 0.05913 |
| 1000:500 | 18 | 351 | 0.051282 |
| 150:50:00 | 449 | 14681 | 0.030584 |