微数据下的互联网安全与风控

陆文 岂安科技 首席技术官

ABOUT ME

南京大学 可信计算与风险估计

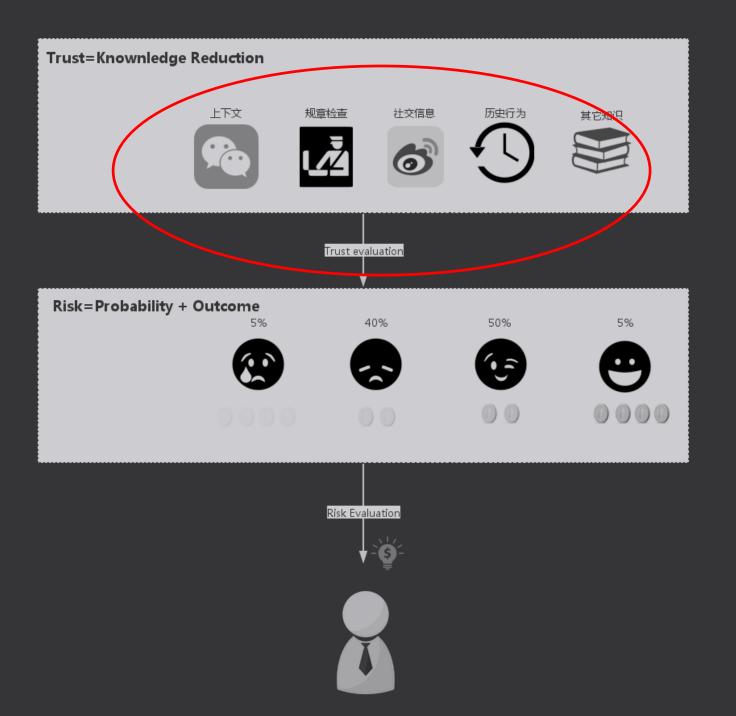




实时大数据平台

让互联网风控更简单

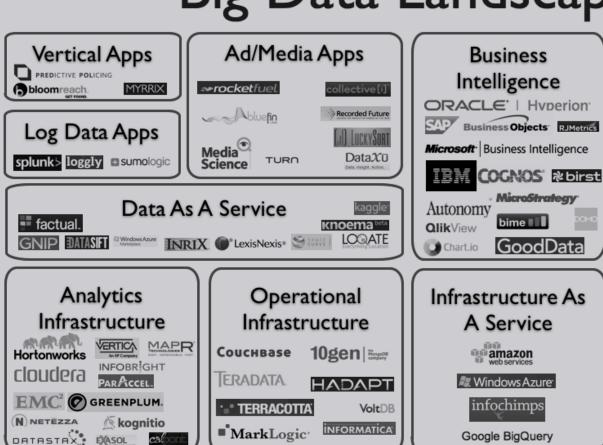


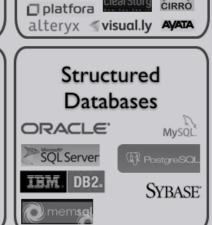


风控是什么?

大数据

Big Data Landscape





Analytics and

Visualization

+ a b l e a v OPalantir

SAS WITIBCO KARMASPHERE

METAMARKETS

TERADATA ASTER

@panopticon

Datameer

dataspora

centrifuge

CIRRO



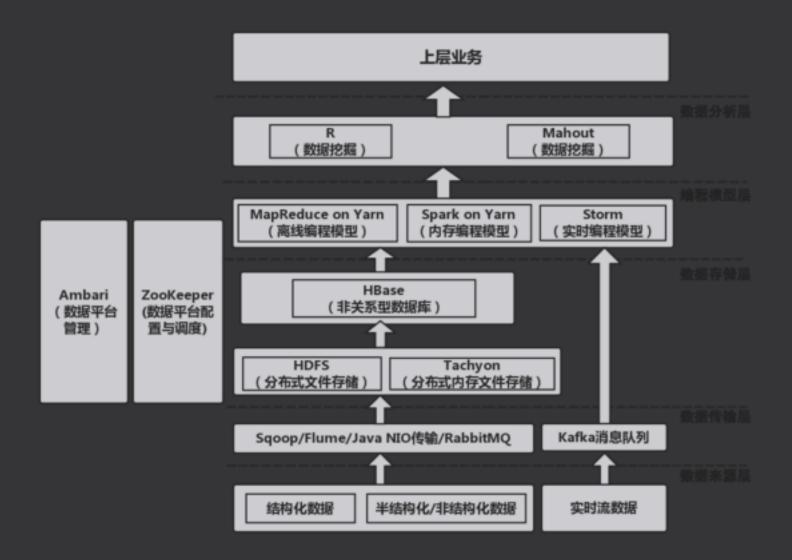






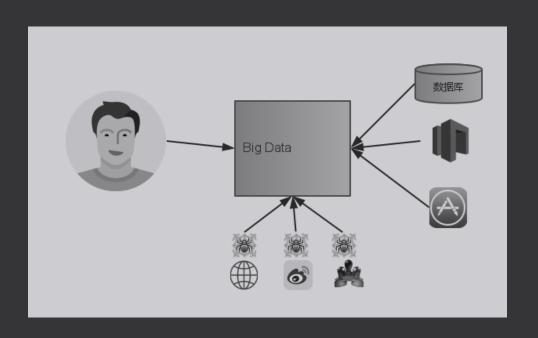


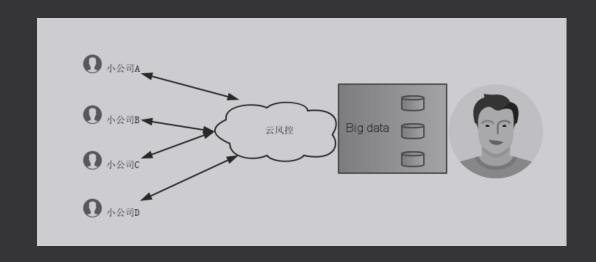
大数据下的 风控





大数据下的 风控模式







问题?

成本高昂(人、机器)

研发集成难度高,运维开销大

数据量少,甚至没有数据

大数据下的数据隐私性

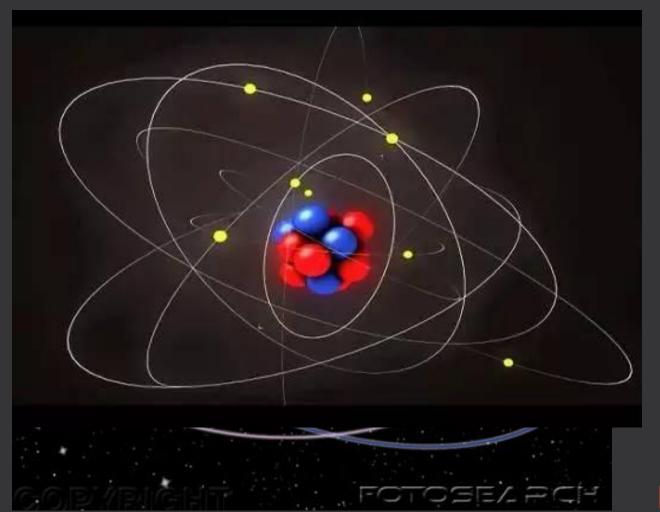
互联网身份识别的脆弱性

大数据风控结果的时效性

无法应对新的攻击实体和行为



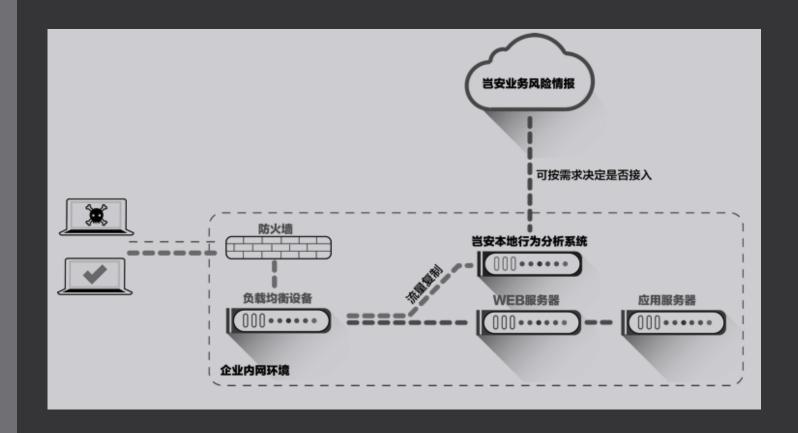
能沒有对數据怎的数据



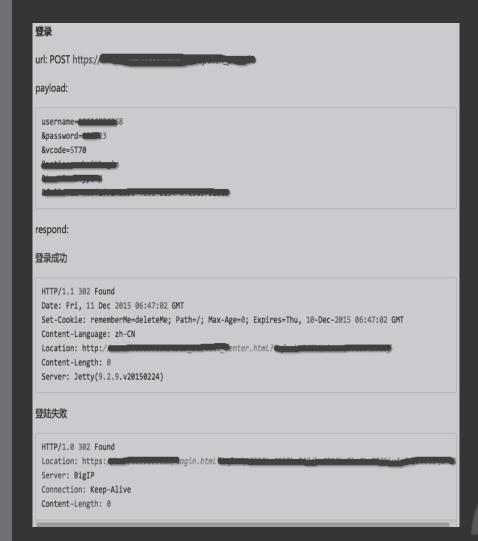
在当前的环境下尽可能的获取数据 在有限的数据数量和质量下,尽可能的计算 采用低成本解决方案,快速解决问题 成本低,该有的不能少

微数据风控





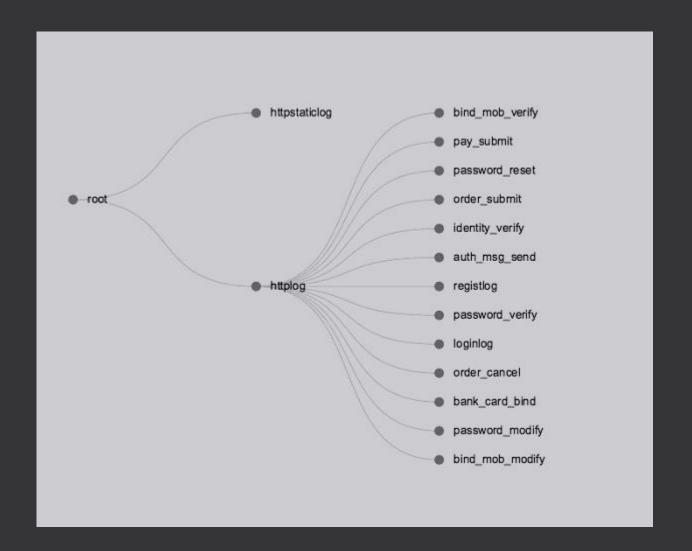
微数据风控 (数据采集)



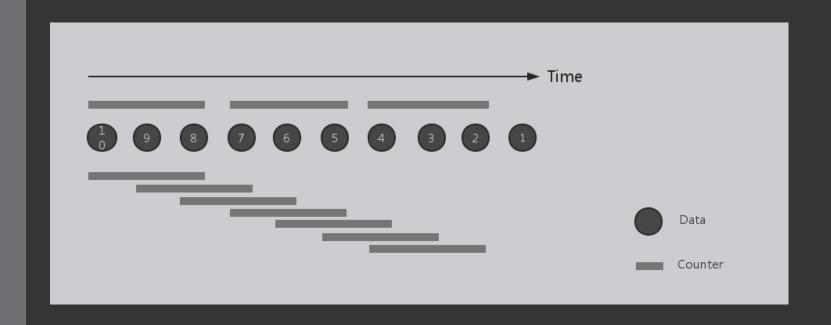
以 岂安科技

微数据风控 (数据采集)

```
new Property(id, "c_ip", STRING),
new Property(id, "c_ipc", STRING),
new Property(id, "c_port", LONG),
new Property(id, "uri_stem", STRING),
new Property(id, "uri_query", STRING),
new Property(id, "host", STRING),
new Property(id, "status", LONG),
new Property(id, "useragent", STRING),
new Property(id, "referer", STRING),
new Property(id, "password", STRING), // payLoad 中的 &
new Property(id, "login_name", STRING), // payload 中的
new Property(id, "login_result", STRING),// 如果满足登陆成功的情况为"T",其余为"F"
new Property(id, "login_type", STRING),// 账号密码登陆
new Property(id, "auth_msg", STRING),//无
new Property(id, "captcha", STRING),// payLoad 中的 &vcode=
new Property(id, "autologin", BOOLEAN))); //无
```



微数据风控 (数据采集)

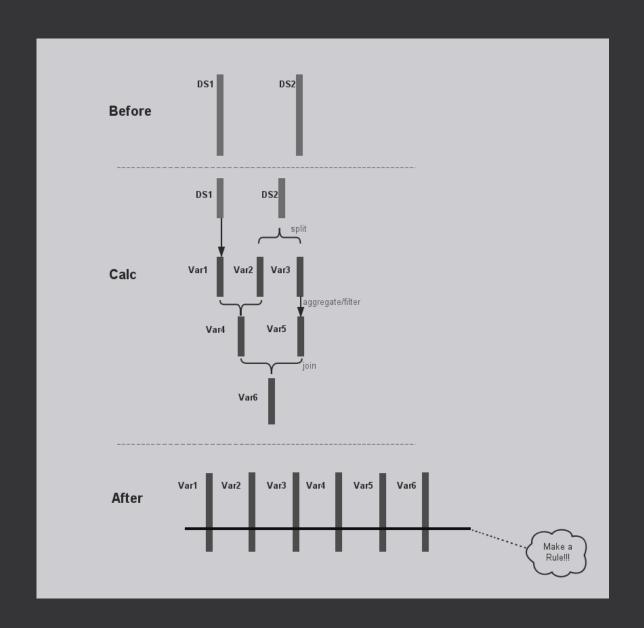


微数据风控 (实时计算)

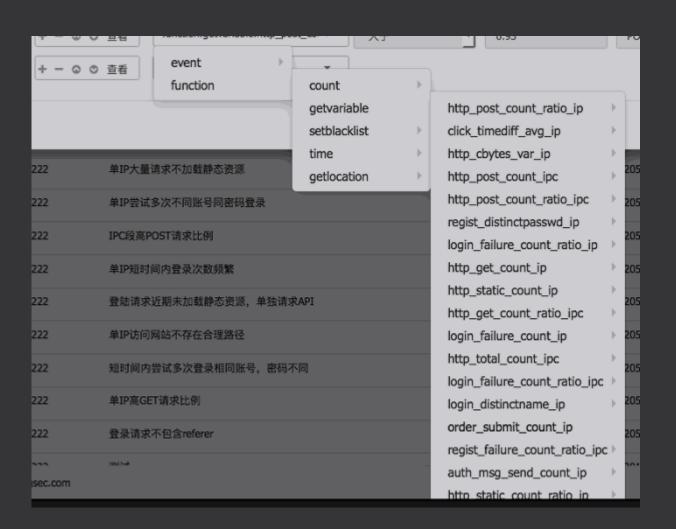


微数据风控 (内存计算)





微数据风控 (变量体系)



微数据风控 (变量体系)



人,岂安科技



微数据风控 (规则引擎)



```
转换报文
▼ Object
           s_ip: "172.16.0.131"
           referer: "172.16.0.131:9001/"
           app: "warden"
          s_type: "application/json"
           uri stem: "172.16.0.131:9001/system/performance/digest"
           c_bytes: 0
           id: "5719e8138c1c7b760aa2e444"
          uid: ""
          r_type: ""
           s_body: "{"status": 0, "msg": "ok", "values": [{"mem": {"total": 1968222208, "ratio": 0.597, "free":
           792920064}, "cpu": {"load": 0.1030000000000001}, "space": {"total": 48027869184, "ratio": 0.424,
           "free": 25233215488}}]}"
           sid: ""
           s_port: 9001
           method: "GET"
           status: 200
           c_body: ""
           timestamp: 1461315603451
           host: "172.16.0.131"
           cookie:
            "uid="2\,|\,1:0\,|\,10:1459413254\,|\,3:uid\,|\,4:mq==\,|\,9d514c3e139bc6cf675243827ab3b31c971b3801f7c364c51ea2da9a3a00313|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,|\,1:0\,
           a";
           user = "2 \mid 1:0 \mid 10:1459413254 \mid 4:user \mid 8:ymlnc2vj \mid ad938fbdf7eeb191643b98d65be6221a51a99666b7208d16377afd62c3 \mid 4:user \mid 4:user \mid 8:ymlnc2vj \mid ad938fbdf7eeb191643b98d65be6221a51a99666b7208d16377afd62c3 \mid ad938fbdf7eeb191643b98d65be6221a51a99666b7208d16377afd62c3 \mid ad938fbdf7eeb191643b98d65be6221a51a99666b7208d1637afd62c3 \mid ad938fbdf7eeb191643b98d65be6221a51a99666b7208d1637afd62c3 \mid ad938fbdf7eeb191643b98d65be6221a51a99666b7208d1637afd62c3 \mid ad938fbdf7eeb191643b98d65be6221a51a99666b7208d1637afd62c3 \mid ad938fbdf7eeb191643b98d65be6221a51a99666b7208d1637afd62c3 \mid ad938fbdf7eeb191645b98d65be6221a51a99666b7208d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1645b98d1
           d50882""
           c_ip: "172.16.0.48"
           c_port: 34820
           c_type: ""
          name: "httplog"
           did: ""
           s_bytes: 213
           useragent: "mozilla/5.0 (x11; ubuntu; linux x86_64; rv:45.0) gecko/20100101 firefox/45.0"
          uri_query: ""
          c ipc: "172.16.0"
                                                                                                                                                                                                                                                                      Google Chrome
```

微数据风控 (溯源)



通过流量来获取和还原数据

对细节特征进行计算,全滑窗计算

中小企业单机解决问题,支持水平扩展

涵盖数据采集、计算、规则引擎、持久化和展示

微数据风控



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