**机器学习平台-后端与引擎交互数据格式约定说明文档**

# 算子状态信息传递

引擎向后端推送算子运行状态，包括READY、RUNNING、SUCCESS、ERROR四种状态。

后端在启动时便开始监听Redis上的OperatorStatus频道

SUBSCRIBE OperatorStatus

引擎向该频道发布算子状态，格式为：

{

"sessionID": "String",

"experimentID": "String(UUID)",

"operatorID": "String(UUID)",

"operatorStatus": "String(READY,RUNNING,SUCCESS,ERROR)",

"errorMsg": "String"

}

# 算子元数据与样例数据传递

引擎向Redis中存储算子计算结果，包括元信息和样例数据，同时设置过期时间

HSET operator:{$sessionID}\_{$experimentID}\_{$operatorID}\_{$port} schema {$schemaJson} sample {$sampleJson}

EXPIRE operator:{$sessionID}\_{$experimentID}\_{$operatorID}\_{$port} {$seconds}

后端可从Redis中分别获取元信息和样例数据

HGET operator:{$sessionID}\_{$experimentID}\_{$operatorID}\_{$port} schema

HGET operator:{$sessionID}\_{$experimentID}\_{$operatorID}\_{$port} sample