

数据挖掘可视化系统-接口文档 V1.0

/api-DataFrame

ENGLISH:

The api to analyze the csv format language.

- **METHOD:** POST
- **Args:**
 - dataSet: the data set originally loaded to submit,
 - sep: the separate character
- **Return:**
 - DataFrame as Json shape like:
 - [{"id": ["1", "2", "3", "4"], "feature1": ["abc", "12fw", "nmd", "wtm", "haode1"]}]

中文:

用以解释 **csv** 文法的接口

- **提交方法:** POST
- **参数:**
 - dataSet: 读取未经处理的 csv 字符串
 - sep: 分割符号
- **返回值:**
 - Json 格式的 DataFrame, 如:
 - [{"id": ["1", "2", "3", "4"], "feature1": ["abc", "12fw", "nmd", "wtm", "haode1"]}]

/api-pretreatment

ENGLISH:

The api to pretreat the data set.

- **METHOD:** POST
- **Args:**
 - dataSet: the data set to submit, must be shaped like :
 - [{"id": ["1", "2", "3", "4"], "feature1": ["abc", "12fw", "nmd", "wtm", "haode1"]}]
 - dropColumns: the columns to be dropped like :
 - ["id", "feature1"]
 - discreteColumns: the columns with discrete elements value like:
 - ["feature1"]
 - textColumn: the columns with Text like:
 - "text"
- **Return:**
 - The hash key to pull data set and a status code (200 for OK, 403 for error)

中文:

用以对数据集进行预处理的

- 提交方法: POST
- 参数:
 - dataSet: 用以提交的数据集， 形如 :
 - [{"id": ["1", "2", "3", "4"], "feature1": ["abc", "12fw", "nmd", "wtm", "haode1"]}]
 - dropColumns: 用以 drop 掉的特征或者列， 形如 :
 - ["id", "feature1"]

- discreteColumns: 标记为离散值的特征或者列，形如:
 - ["feature1"]
- textColumn: 存储文段的特征或者列，形如:
 - "text"
- 返回值:
 - 用以拉取数据的哈希键以及状态码 (200 意为可以, 403 意为错误)

/api-fit

ENGLISH:

The api to fit the model.

- **METHOD:** POST
- **Args:**
 - hashKey: the hash key to pull data set
 - target: the target our model should predict and we call "label" as term
 - model: the model chosen to fit the data set
 - 1: Naive Bayes
 - 2: KNN
 - 3: SVM
 - 4: Linear Regression
 - 5: Logistic Regression
 - 6: Decision Tree
- **Return:**(in JSON shape)
 - hashKey: the key to pull trained Model
 - cv_score: the score spawned by cross_validation
 - images: viusalization of the trained models (base64)
 - status_code: 200 for OK, 403 for ERROR

中文:

用以训练模型的 API

- 提交方法: POST
- 参数:
 - hashKey: 数据集的哈希键
 - target: 需要进行预测的特征, 或者我们说的“标签”
 - model: 选择不同的模型
 - 1: 朴素贝叶斯 (文字版)
 - 2: KNN
 - 3: 支持向量机
 - 4: 线性回归
 - 5: 对数几率回归
 - 6: 决策树
- 返回值:(JSON 格式)
 - hashKey: 与训练好的模型唯一对应的哈希键
 - cv_score: 通过交叉验证法生成的分数
 - images: 可视化图像 (base64)
 - status_code: 200 意为 OK, 403 意为 错误

/api-predict

ENGLISH:

The api to predict.

- **METHOD:** POST
- **Args:**
 - hashKey!: the hash key to pull data set

- hashKeyII: the hash key to pull trained model
- **Return:**
- The result in JSON shape and a status code (200 for OK, 403 for error)

中文:

用以预测的 API。

- 提交方法: POST
- 参数:
- hashKeyI: 存储数据的哈希键
- hashKeyII: 存储训练好的模型的哈希键
- 返回值:
- JSON 形式的 DataFrame 训练结果以及状态码 (200 意为可以, 403 意为错误)

/api-getDataSet

ENGLISH:

The api to pull default data set

- **METHOD:** POST
- **Args:**different data sets
- 0: spam_ham_dataset
- 1: tree
- 2: cancer
- 3: house
- 4: iris
- 5: forest fire
-
- **Return:**

- DataFrame as Json shape like:
- ["id": ["1", "2", "3", "4"], "feature1": ["abc", "12fw", "nmd", "wtm", "haode1"]]

中文:

用以抓取默认数据集

- 提交方法: POST
- **Args:**different data sets
 - 0: 垃圾邮件集
 - 1: tree 集
 - 2: 乳腺癌集
 - 3: 房价集
 - 4: 简化鸢尾花集
 - 5: 森林火灾集
- 返回值:
 - Json 格式的 DataFrame, 如:
 - ["id": ["1", "2", "3", "4"], "feature1": ["abc", "12fw", "nmd", "wtm", "haode1"]]

How to explain the Pool Manager?

调度系统是如何作业的?

All in this Image.

一图流。

