

任务

一个由10000条Instagram帖子组成的csv表格。通过数据分析和爬虫，进行数据清理，并载入其他参数。

具体步骤

第一阶段：数据清理

根据以下参数，删除条目，并将剩下的帖子生成一个新的csv。

| 参数 | 定义 | If..., 则删除此条目 | 代码参考 |
|-------------------------------|------------------------------------|---------------|---|
| Text_Include_Url | “Text”中是否含有网址 | TRUE | |
| Text_Include_Tel | “Text”中是否含有电话 | TRUE | |
| Text_Include_Stopwords | “Text”中是否含有 “stopwords.txt”中的词条 | TRUE | |
| Text_Repetition | 同一个“Text”是否重复 >=2次 | TRUE | |
| Img_Dominant_Color_RGB | “Img_URL”链接到的图片，其主导颜色色值(r,g,b) | | https://adamspannbauer.github.io/2018/03/02/app-icon-dominant-colors/ |
| Img_Dominant_Color_Difference | r g b 中最大值与最小值的差值=a | a>150 | |

见下图：出现红色代表需要删除该条目

| | 定义 | 示例 | 代码参考 |
|---------------------------|-------------------------|---|--|
| Text_NoHash tag | “Text”中去掉 hashtag余下的文本 | Lesson: don't go out to eat with a teething baby who's lost his appetite. 🍼 Baby A ate about half a slice of toast and threw about half an egg to the floor before we gave up. Sigh. At least the staff at @crystalrockscave were lovely as ever (and Mummy and Daddy enjoyed their meals!). | |
| Text_NoHash tag_Length | “Text_NoHashtag” 字数 | 55 | |
| Text_NoHash tag_Sentiment | 链接到api, 分析每句话的sentiment | <p>Entire Document Score: -0.2 Magnitude: 2.7</p> <p>“Lesson: don't go out to eat with a teething baby who's lost his appetite.” Score: -0.4 Magnitude: 0.4</p> <p>“🍼 Baby A ate about half a slice of toast and threw about half an egg to the floor before we gave up.” Score: -0.6 Magnitude: 0.6</p> <p>“Sigh.” Score: -0.7 Magnitude: 0.7</p> <p>“At least the staff at @crystalrockscave were lovely as ever (and Mummy and Daddy enjoyed their meals!).” Score: 0.9 Magnitude: 0.9</p> | https://cloud.google.com/natural-language/#how-automl-natural-language-works; https://pypi.org/project/vaderSentiment/ |
| Text_NounPhrases | 数据“Text”中含有的名词 | | https://pypi.org/project/spacy/ |
| Text_Verbs | 数据“Text”中含有的动词 | go; eat; ate; sigh; threw, gave up; enjoyed | |
| Text_emotions | 数据“Text”中含有的情感 | Lost; lovely; enjoyed | |

| | | 定义 | 示例 | 代码参考 |
|------|------------|--------------------|---|---|
| 图片识别 | Img_labels | 链接到api, 分析图片的label | <pre>{ "status": { "code": 200, "msg": "OK" }, "head": { "method": "/predict", "service": "classification_21k", "time": 41 }, "body": { "predictions": [{ "classes": [{ "prob": 0.073883056640625, "cat": "Atrium" }, { "prob": 0.06305904686450958, "cat": "Library" }, { "prob": 0.06247774139046669, "cat": "Roof" }, { "prob": 0.03711871802806854, "cat": "Proton accelerator" }] }] } }</pre> | https://www.deepdetect.com/models/classification_21k/ |

| | | 定义 | 示例 | 代码参考 |
|----|--------------------|------------------|---|---|
| 爬虫 | Owner_Account | “Owner”链接到的用户id | another_blw_account | https://github.com/realsirjoe/instagram-scraper |
| | Owner_Username | “Owner”链接到的用户名 | Weaning Baby A | |
| | Owner_Followers | “Owner”链接到的用户粉丝数 | 614 | |
| | Owner_Posts_Number | “Owner”链接到的帖子数 | 487 | |
| | Owner_Intro | “Owner”链接到的用户简介 | No fancy photography or bamboo tableware, just a couple of foodie parents trying to figure out BLW with an 11 month old (24.01.19, EBF, 4 teeth). | |