DL Final Competition

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簡單敘述實作執行方式之 README 或報告:

一開始先把資料讀進去

把 keyword 和 title 合併訓練

```
train_title = list(train_df['title'])
train_keyword = list(train_df['keyword'])
test_title = list(test_df['title'])
test_keyword = list(test_df['keyword'])

train_title_keyword = []
test_title_keyword = []
for x,y in zip(train_title,train_keyword):
    train_title_keyword.append(str(x)+str(y))
for x,y in zip(test_title,test_keyword):
    test_title_keyword.append(str(x)+str(y))
```

用 jieba 分割中文字

```
train_df['title_keyword'] = train_title_keyword
test_df['title_keyword'] = test_title_keyword

train_df['title_keyword(token)'] = train_df.title_keyword.apply(jieba.lcut)

test_df['title_keyword(token)'] = test_df.title_keyword.apply(jieba.lcut)

# train_df

train_token = list(train_df['title_keyword(token)'])
test_token = list(test_df['title_keyword(token)'])
```

去除一些 stop word

```
# Read chinese stopword file
f = open('cn_stopwords.txt','r',encoding="utf-8")
doc = f.read().splitlines()
all_doc.append(doc)
stop_word_all = all_doc[0]
train_token_no_stopword = []
test_token_no_stopword = []
for x in train_token:
   temp = []
for y in x:
      if y not in stop_word and y not in stop_word_all:
          temp.append(y)
   train token no stopword.append(temp)
for x in test_token:
   temp = []
for y in x:
      if y not in stop_word and y not in stop_word_all:
temp.append(y)
test_token_no_stopword.append(temp)
```

把它轉成可訓練的資料形式

建立 Istm 模型訓練

```
Epoch 4/10
191703/191703 [
     Epoch 5/10
191703/191703
     acc: 0.9171
Epoch 6/10
191703/191703 [
      acc: 0.9164
191703/191703 [
     acc: 0.9148
Epoch 8/10
acc: 0.9169
Epoch 9/10
191703/191703
      _acc: 0.9164
Epoch 10/10
191703/191703
      _acc: 0.9152
```

最後把 test 的預測存出一個 excel 檔