



Analysing Reviews on Google by NLP

0816175 高靖 0816006 郭冠德 0816081 張以廉

NYCU Spr2022

Undergraduate AI Capstone

National Chiao Tung University

5/17

Objectives

- Analysis reviews on Google map with different methods.
- Using different Language Model .
- TF-IDF (traditional ML) .
- Gensim + Word2vec/LSTM/BERT.



Machine
Learning
with Text
(TF- IDF Vectorizer

評論摘要 ① 撰寫評論

5  4.6
4 
3 
2 
1  1,112 則評論

★★★★★
"好吃的個人小火鍋 路邊好停車 餐廳旁也有私人停車場 食材衛生乾淨 菜盤份量很多"

★★★★★
"新竹宵夜火鍋首選，性價比高、開的時間夠晚、贈送的券換的肉蝦很有誠意。"

★★★★★
"服務員臉臭態度很差 菜很少青菜不到2片 價位偏高餐具卻很沒質感還用免洗杯..."

Google 評論

YaRu Yu
在地嚮導 · 455 則評論 · 1,177 張相片
★★★★★ 4 個月前
來這裡最好預定哩，因為消費會送卷，下次可換肉或蝦等，不錯，冰淇淋好吃喔，有限制時間。



👍 喜歡



Outcomes

- Positive/negative predictions.
- Furthermore, do the predict rating of a comment.
- Dataset:
 1. Yelp reviews, which is an open source dataset, containing vast variety of comments to train the model.
 2. Crawler from Google map reviews, using API or selenium to collect data from Google to train the model.



Related Work

- Using request & Beautiful soup to collect/extract data.
- To understand unsupervised learning model (BERT).
- using google colab environment

