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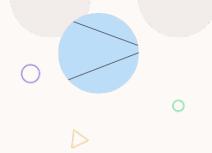
02. Data crawling

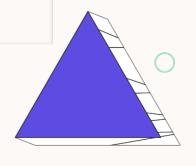
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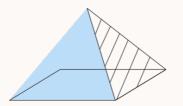


01. Purpose

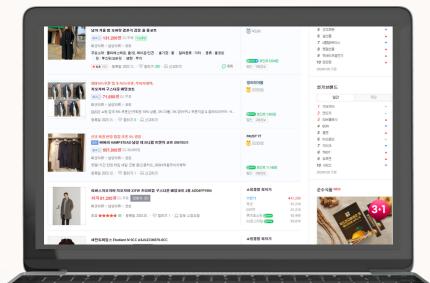




01. Purpose







Crawling cessing



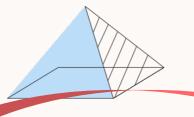
Data preprocessing





Shopping category predict Al







What is this?





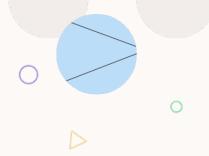
Clothes!

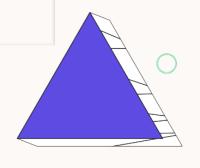
Shopping category predict AI















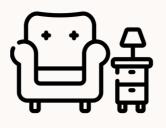
Category







Beauty



Furniture

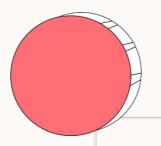


Digital

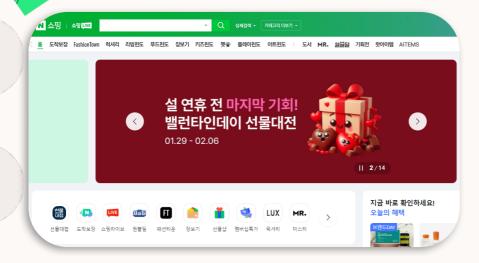


Food







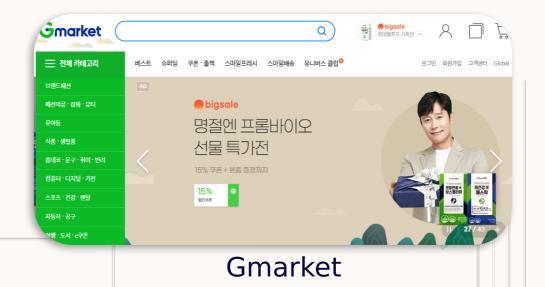


Naver





11st

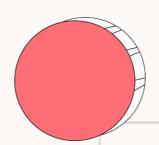




Naver

Organized address and xpath



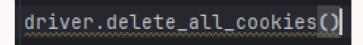




Coupang

Block request from server





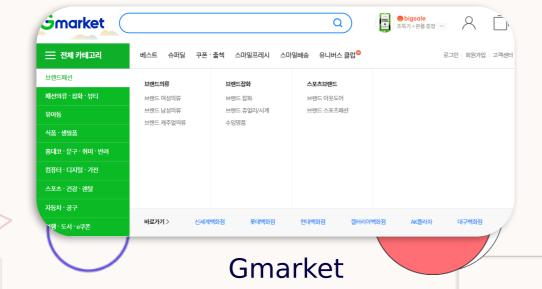








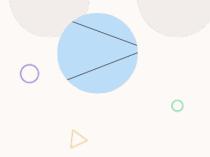
11st

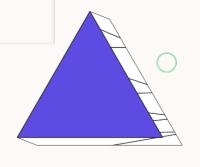


Irregular address and xpath ()









03. Preprocessing





03. Preprocessing

Morpheme separation





Remove stop words

```
1 ,stopword
2 0,아
3 1,휴
4 2,아이구
5 3,아이쿠
6 4,아이고
7 5,어
8 6,나
```

03. Preprocessing

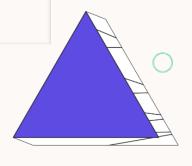
Remove stop words

17009	상품병 _ 안선 무늬 유아 잭싱
17010	상품명 체스 공부상 대왕체스말 포함
17011	상품명 세 유아 공부 책상 의자 힘
17012	상품명 체스 공부상 대왕체스말 포함
17013	상품명 롤페이퍼 키즈독서대 유아 여
17014	상품명 유베코 아기 유아 어린이 논
17015	상품명 잡지진열장 잡지함 잡지꽃이
17016	상품명 옷장 아이옷장 아동옷장 원득
47047	사프며 오프 게다시 채꼬이 보시템데

789 788, 판매가 790 789, 정상가 791 790, 원 792 791, 무료배송 793 792, pay 794 793, 최대 795 794, P적립 796 795, 상품명

Combining morphemes And Tokenization





04. Learning



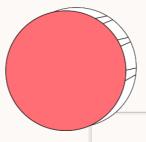


04. Learning

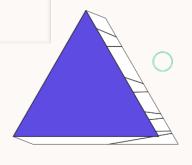
```
model = Sequential()
model.add(Embedding( inputdim: 11911, outputdim: 300, input_length=24))
model.add(Conv1D( filters: 32, kernel_size=5, padding='same', activation='relu'))
model.add(MaxPooling1D(pool_size=1))
model.add(LSTM( units: 128, activation='tanh', return_sequences=True))
model.add(Dropout(0.3))
model.add(LSTM( units: 64, activation='tanh', return_sequences=True))
model.add(Dropout(0.3))
model.add(Dropout(0.3))
model.add(Dropout(0.3))
model.add(Flatten())
model.add(Dense( units: 128, activation='relu'))
model.add(Dense( units: 5, activation='softmax'))
model.summary()
```

Learning using RNN









05. Result





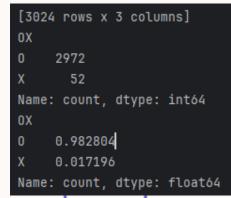


coupang









First prediction

```
[3024 rows x 3 columns]

0X

0 2996

X 28

Name: count, dtype: int64

0X

0 0.990741

X 0.009259

Name: count, dtype: float64
```

+Second prediction

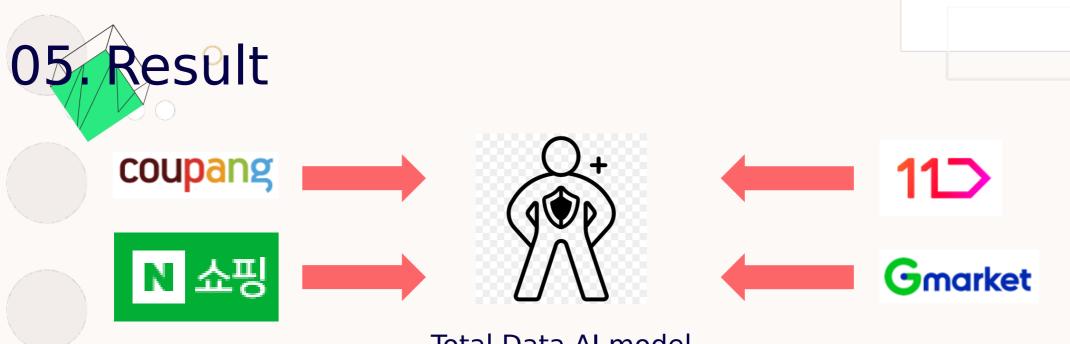




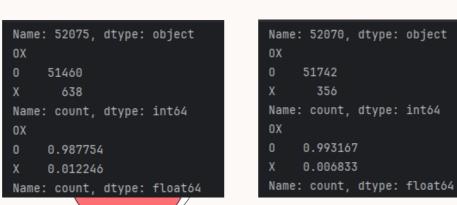
Coupang Data Al model

First prediction

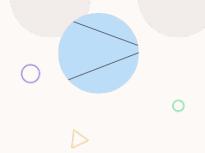
+Second prediction

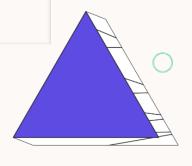


Total Data AI model



First prediction +Second prediction

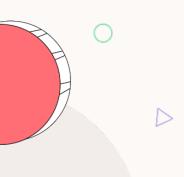




06. Q&A









Thanks!



