

Data Analyst Portfolio

최서윤

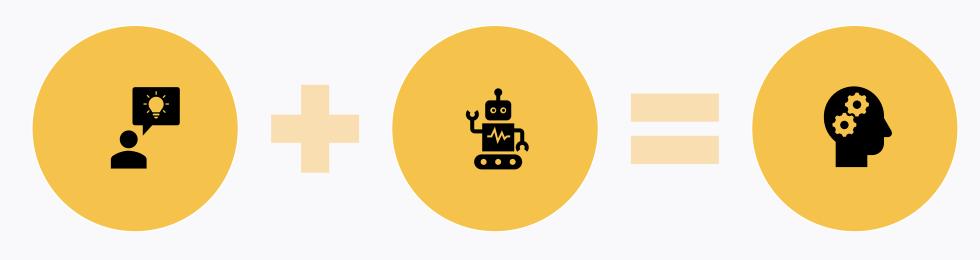
Data Analyst



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실무 데이터 분석 프로젝트

- 제주도 내 인기장소 찾기
- 제주도 방문 관광객 이동경로 찾기

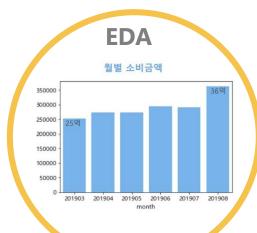
머신러닝 & 딥러닝 프로젝트

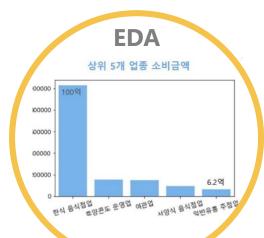
- 출산율 예측
- 텍스트와 이미지를 통한 감정 분류
- 재활용품 분류

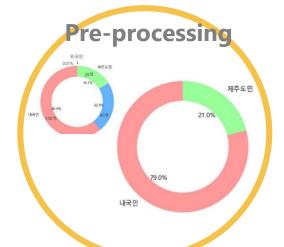
데이터 분석가 최서윤

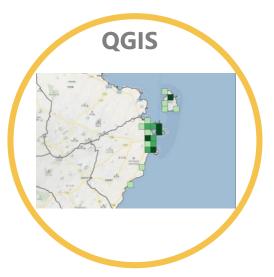
Hot Places in Jeju

신용카드 데이터









소셜 데이터

네이버 블로그&카페,인스타그램 크롤링



Pre-processing

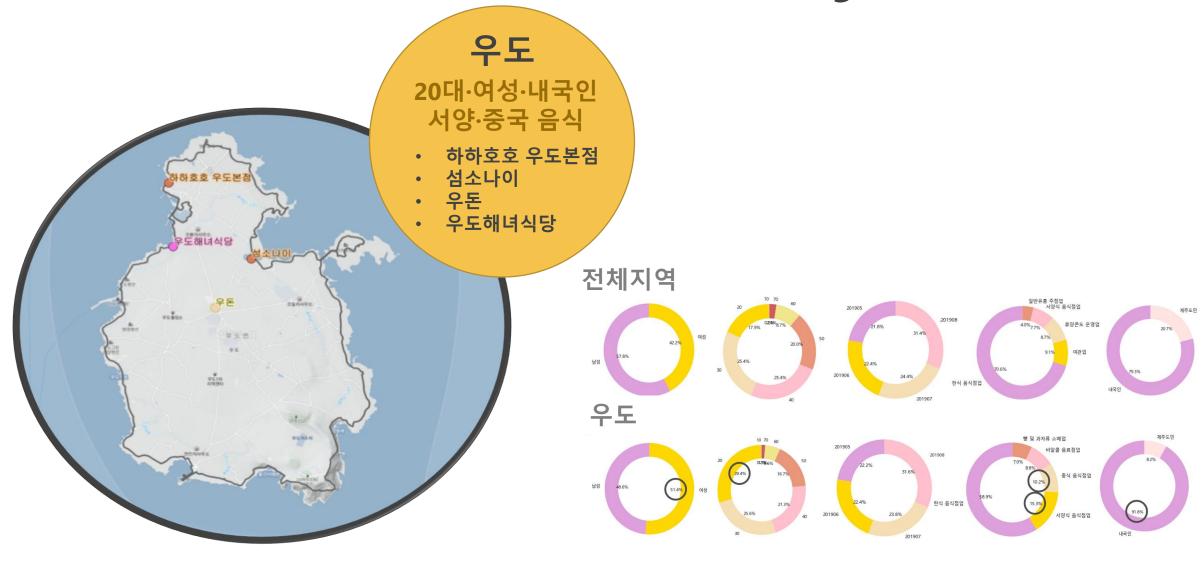
Total one can be called a processing to the called a proces

Word cloud

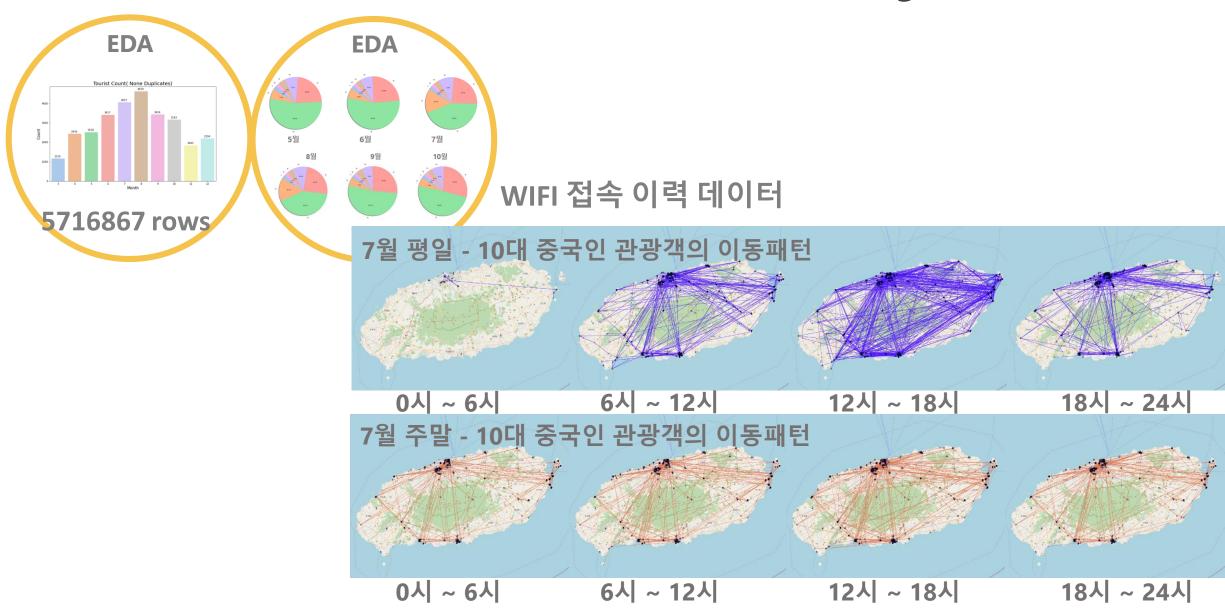
Kakao Map API



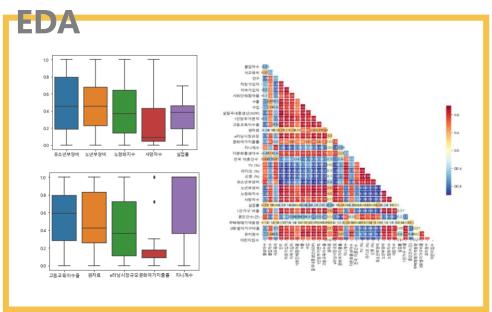
Hot Places in Jeju



Tourist route in Jeju



Birth-rate Regression



Modeling

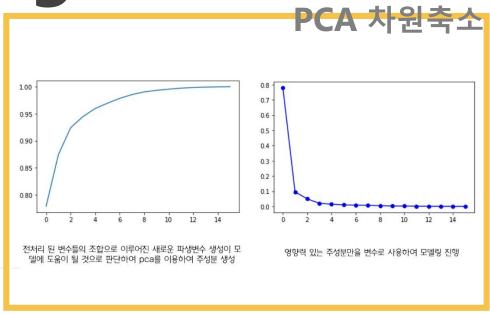
	Linear	* SVR	D.T	R.T	XGB
Train MSE	0.19581	0.011588	0.0	0.00379	9.4991
Test MSE	0.23230	0.009546	0.01739	0.00666	0.0151
상관계수	0.95	0.96	0.94	0.95	0.93

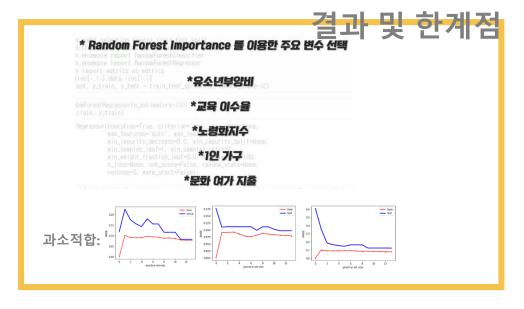
Grid Search CV

*최적의 파라메터 조합

0.988474

SVR (C=0.1, cache_size=200, coef0=0.0, degree=3, Epsilon=0.1, gamma=1, kernel='rbf', max_iter=-1, shrinking=True, Tol=0.001, verbose=False)





Emotion Classification

Image pre-treatment









Afraid

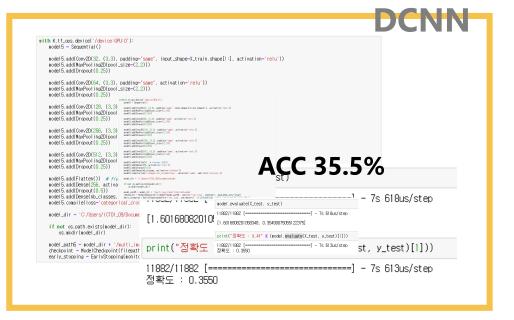
Anger

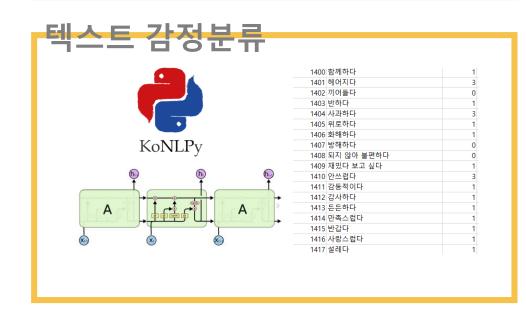
Disgusted

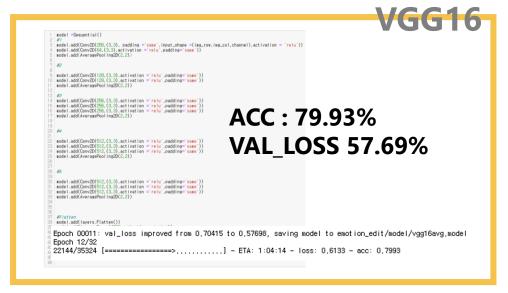
Нарру Neutral

Sad

Surprised

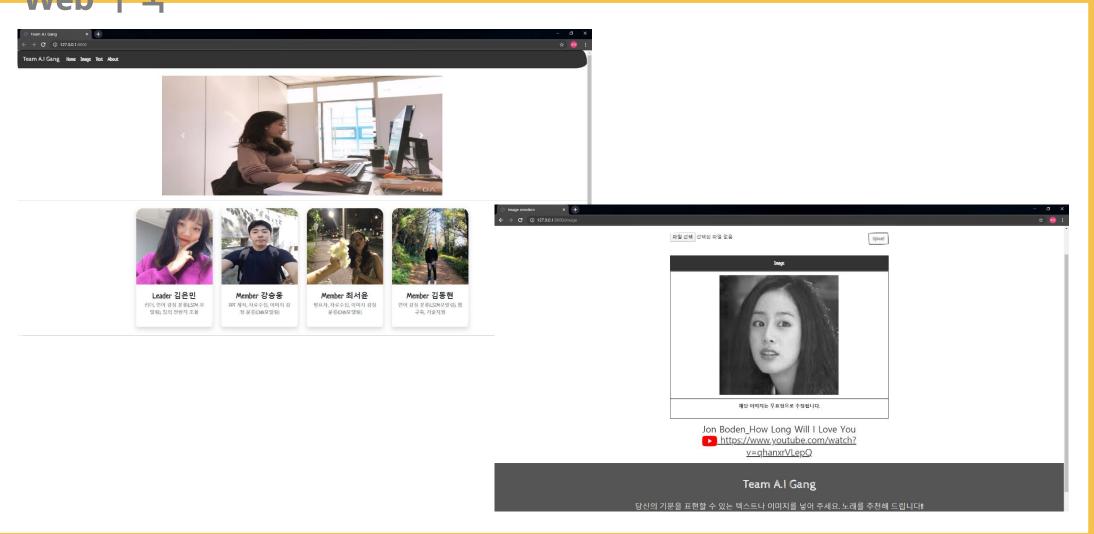






Emotion Classification

Web 구축



Recycle Classification

Pre-processing





Glass





Plastic

Can

Styrofoam

Selenium Crawling



ImageDataGenerator & reshape



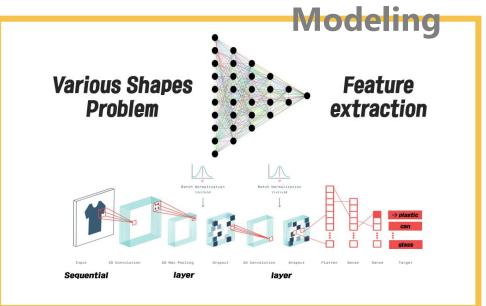


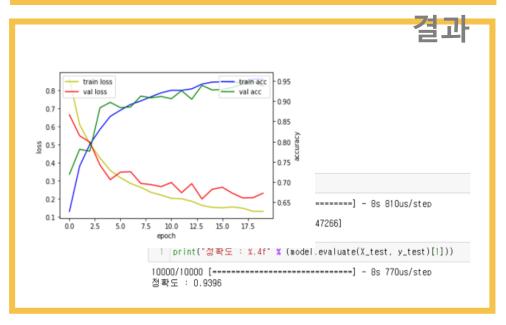




CNN

Layer (type)	Output	Shape	Param #
conv2d_1 (Conv2D)	(None,	64, 64, 32)	896
max_pooling2d_1 (MaxPooling2	(None,	32, 32, 32)	0
dropout_1 (Dropout)	(None,	32, 32, 32)	0
conv2d_2 (Conv2D)	(None,	32, 32, 64)	18496
max_pooling2d_2 (MaxPooling2	(None,	16, 16, 64)	0
dropout_2 (Dropout)	(None,	16, 16, 64)	0
flatten_1 (Flatten)	(None,	16384)	0
dense_1 (Dense)	(None,	256)	4194560
dropout_3 (Dropout)	(None,	256)	0
dense_2 (Dense)	(None,	4)	1028
Total params: 4,214,980 Trainable params: 4,214,980 Non-trainable params: 0			





Thank you