

Danny Ki [Data Scientist]

CONTACT



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Website

datavoyagerdanny.com



GitHub

github.com/kish191919



LinkedIn

Linkedin.com/in/danny-sunghwan-ki-52381116

SKILLS

Data Science[Python]

Numpy/Pandas.
Sklearn/Statsmodel
Seaborn/ggplot
Languages

Python

R

RDBMS and NoSQL

MySQL

MongoDB

Big Data

Hadoop

Spark

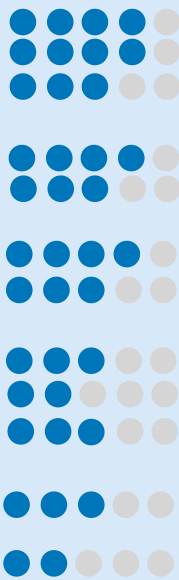
Hive

Framework

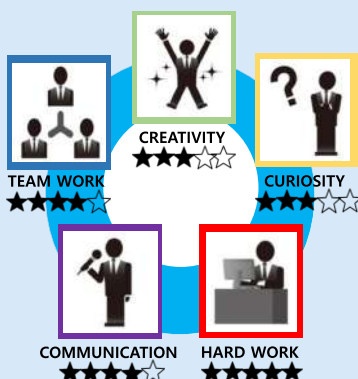
Flask

Cloud

AWS



PERSONAL



EDUCATION

- **FAST CAMPUS** - Seoul, Korea
- Data Science School
JAN 2018 - MAY 2018
- **UDACITY** - Online Course
- Intro to Programming Nano degree
JUL 2017 - AUG 2017
- **MYOUNGJI UNIVERSITY** - Seoul, Korea
- Bachelor's Degree in Business Administration and International Business
MAR 2000 - FEB 2009



PROJECT

Portfolio Website: <http://datavoyagerdanny.com>

- **Predict Used-Car Price in Georgia** [Service Website : <http://dannyki.ga/>] / XGBoost
- Crawled on cars.com to collect data and store it in AWS's mysql.
- After preprocessing stored data, put it in machine learning model to predict used car price.
- Models learned on AWS server implemented as web services using Flask web framework.
- **[KAGGLE Competition] Predict House Prices / OLS Regression**
- Developed and applied OLS algorithms to predict house prices in Ames, Iowa
- It was the first project I submitted to the Kaggle Competition and solved the problem with a probabilistic approach.
- **[KAGGLE Competition] Spooky Author Identification / Naive Bayes Classification**
- As a text analysis project, it was a problem seeing which authors wrote articles. After vectorizing words, classified them via machine learning with Naive Bayes Classification.
- **[KAGGLE Competition] Titanic Machine Learning from Disaster/ Voting Classifier**
- Predicted survival on the Titanic.
- **[KAGGLE Competition] Bike Sharing Demand / Random Forest**
- Forecasted bicycle demand using R language.



CERTIFICATION

FAST CAMPUS

- Machine Learning with R
- Apache Hadoop

COURSERA

- Machine Learning (Andrew Ng)
- Machine Learning Foundation (Carlos, Emily)
- Introduction to Probability and data (Mine)
- Python Programming (Charles Severance)



EXPERIENCE

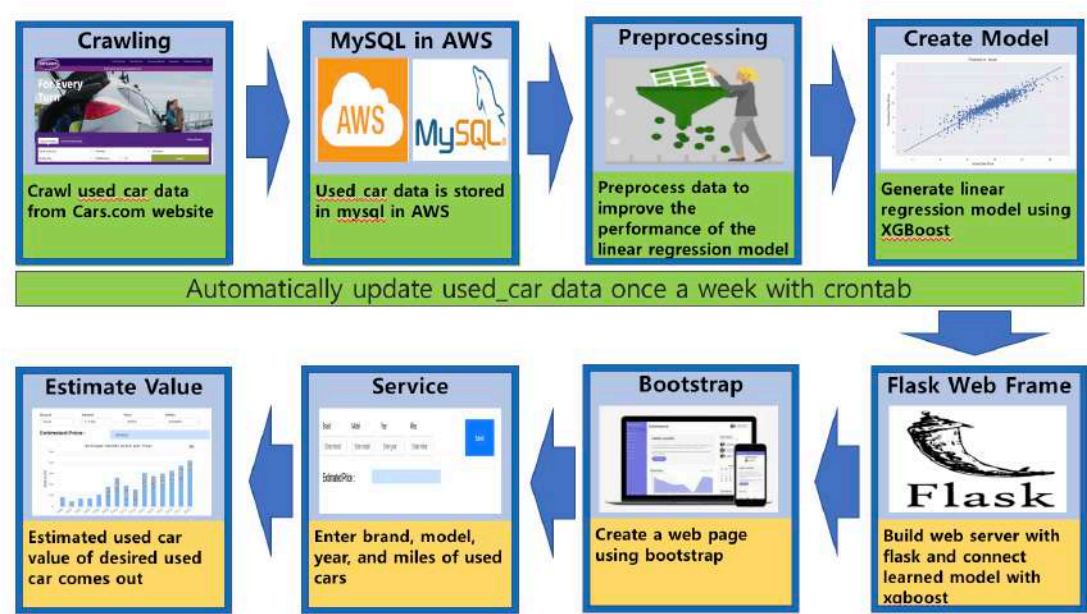
- Sales and Logistics Assistant Manager**
AUG 2015 - DEC 2017
Dongwon Autopart Technology Georgia LLC (web site) *Hogansville, Georgia*
- Analyzed financial reports, markets, and other data to maximize profit and minimize costs
- Established the negotiating strategy for sales and took the lead position in automotive markets
- Purchasing Assistant Manager**
DEC 2013 - JUL 2015
Kukdo Chemical Co.,LTD. (web site) *Seoul, Korea*
- Negotiated with various vendors to ensure that a fair price for goods using ICIS and Platts
- Monitored and evaluated supplier metrics for capability, performance, and delivery to meet organization planning and forecasting needs.
- Purchasing Specialist**
OCT 2011 - NOV 2013
Lotte Chemical Alabama Corp (web site) *Auburn, Alabama*
- Planned and purchased chemical materials from domestic and imported vendors with economic conditions.



PROJECT

(1) Predict Used-Car Price in Georgia

Subject : Machine learning based vehicle forecasting program
Period : 2018. 03 - 2018. 04
Tech : Python (Pandas, Scikit-learn), Data Crawl , AWS, Flask, MySQL, Bootstrap
Model : XGBooster (Accuracy : 85%)
Structure :



Service Website : <http://dannyki.ga/>

How to use the Service Website :

→ Fill in the information and then press the submit button

Predict Used-Car in Georgia

Please fill in the information (Brand, Model, Year, Miles) below about the used-car you want to know about the price. And then press the submit button.

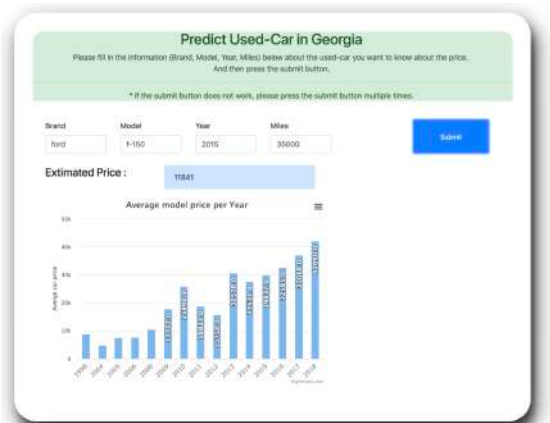
* If the submit button does not work, please press the submit button multiple times.

Brand	Model	Year	Miles
ford	F-150	2015	35000

Submit

Estimated Price :

→ You can check the price of the used car you want, and you can also check the average price for different years with the same model





PROJECT

(2) [KAGGLE Competition] Predict House Prices

Subject : Predict house prices in Ames, Iowa
 Period : 2018. 01 - 2018. 03
 Data : Train Data - 81 variables and 1460 house data
 Test Data - 80 variables and 1459 house data
 Python : Preprocessing - Numpy, Pandas
 Graph - Matplotlib, Seaborn
 Model : **Ordinary Least Squares Model**

OLS Regression Results						
Dep. Variable:	SalePrice	R-squared:	0.945			
Model:	OLS	Adj. R-squared:	0.942			
Method:	Least Squares	F-statistic:	403.6			
Date:	Mon, 26 Mar 2018	Prob (F-statistic):	0.00			
Time:	21:13:50	Log-Likelihood:	1405.0			
No. Observations:	1383	AIC:	-2696.			
Df Residuals:	1326	BIC:	-2398.			
Df Model:	56					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
Intercept	12.1018	0.059	204.753	0.000	11.986	12.218
C(Neighborhood)[T.Blueste]	-0.0265	0.069	-0.381	0.703	-0.163	0.110
C(Neighborhood)[T.BrDale]	-0.0495	0.037	-1.347	0.178	-0.122	0.023
C(Neighborhood)[T.BrkSide]	-0.0058	0.031	-0.184	0.854	-0.067	0.056
C(Neighborhood)[T.ClearCr]	-0.0454	0.033	-1.383	0.167	-0.110	0.019

Kaggle Score : 0.12384 / Kaggle rank : 1042 / 4548 (22.9%)
 Github : https://github.com/kish191919/House_Price_Project_by_Python

(3) [KAGGLE Competition] Spooky Author Identification

Subject : Identify an author from sentences which they wrote
 Period : 2018. 03 - 2018. 04
 Data : Train Data - 3 variables and 19,579 text data
 Test Data - 2 variables and 8,392 text data
 Python : Natural Language Processing - Stopword, Stemming
 Vectorization - CountVectorizer
 Model - Randomforest, AdaBoost, SVM, Naive Bayes Classification
 Model : **Naive Bayes classification**

```
Confusion Matrix :
[[7414 110 376]
 [ 631 4764 240]
 [ 588 89 5367]]
```

```
10-fold Cross Validation Report:
      precision    recall  f1-score   support

0         0.86         0.94         0.90         7900
1         0.96         0.85         0.90         5635
2         0.90         0.89         0.89         6044

avg / total         0.90         0.90         0.90         19579
```

Kaggle Score : 0.48767 / Kaggle rank : 793 / 1244 (63.7%)
 Github : https://github.com/kish191919/Spooky_Author_Identification_by_Python



PROJECT

(4) [KAGGLE Competition] Titanic Machine Learning from Disaster

Subject : Predict survival on the Titanic
Period : 2018. 03 - 2018. 04
Data : Train Data - 12 variables and 891 data
Test Data - 11 variables and 418 data
Python : Preprocessing - Numpy, Pandas
Graph - Matplotlib, Seaborn
Models - DecisionTree, Randomforest, Adaboost, Support Vector Machine,
Naive Bayes Classification, VotingClassifier
Model : **VotingClassifier Model**

Confusion Matrix :

		0	1	
	0	484	57	
	1	80	260	

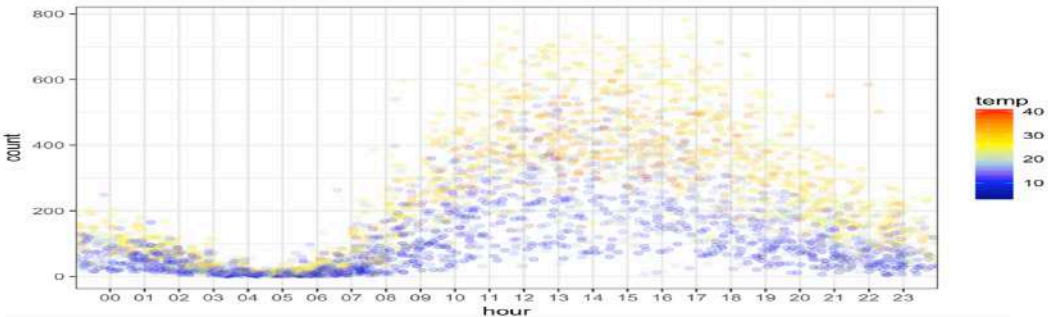
10-fold Cross Validation Report:

		precision	recall	f1-score	support
	0	0.86	0.89	0.88	541
	1	0.82	0.76	0.79	340
	avg / total	0.84	0.84	0.84	881

Kaggle Score : 0.78468 / Kaggle rank : 4304 / 10676 (40.3%)
Github : https://github.com/kish191919/Titanic_Machine_Learning_from_Disaster_by_Python

(5) [KAGGLE Competition] Bike Sharing Demand

Subject : Predict demand on bike
Period : 2018. 04
Data : Train Data - 12 variables and 10,886 data
Test Data - 9 variables and 6,493 data
R : Preprocessing - dplyr
Graph - ggplot
Model - Randomforest
Model : **Randomforest**



Kaggle Score : 0.48613 / Kaggle rank : 1,357 / 3,251 (41.7%)
Github : https://github.com/kish191919/Bike-Sharing-Demand_by_R