Danny Ki [Data Scientist]

CONTACT

Address
139 Fairway Dr.
Newnan, GA 30265

Mobile
(678)-850-4240

Email
kish1919@gmail.com

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

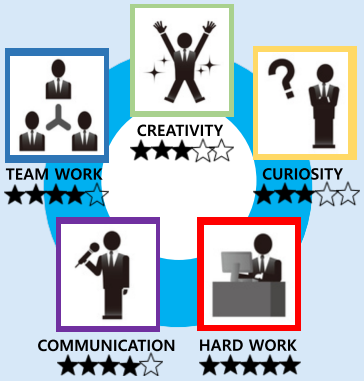
Framework

Flask

Cloud

AWS

PERSONAL



EDUCATION

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

PROJECT

Portfolio Website: http://datavoyagerdanny.com

- **Predict Used-Car Price in Georgia [Service Website : http://dannyki.ga/]**
  Crawled on cars.com to collect data and store it in AWS's mysql.
  After preprocessing the stored data, it is learned by putting it in the machine learning model to predict the used car price.
  The models learned on the AWS server are implemented as web services using the Flask web framework.
- **KAGGLE Competition] Predict House Prices / Regression**
  Developed and applied OLS algorithms to predict house price in Ames, Lowa
  It was the first project I submitted to Kaggle Competition and solved the problem with a probabilistic approach
- **[KAGGLE Competition] Spooky Author Identification / Text Classification**
  As a text analysis project, it is a problem to see which author is writing the article. After vectorizing the words, classify them by machine learning with Naive Bayes Classification
- **[KAGGLE Competition] Titanic Machine Learning from Disaster / Classification**
  Predicted survival on the Titanic
- **[KAGGLE Competition] Bike Sharing Demand / Regression**
  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 Assistant Manager — **AUG 2015 - DEC 2017**
Dongwon Autopart Technology Georgia LLC — *Hogansville, Georgia*
Establish the negotiating strategy for sales and took the lead position in markets

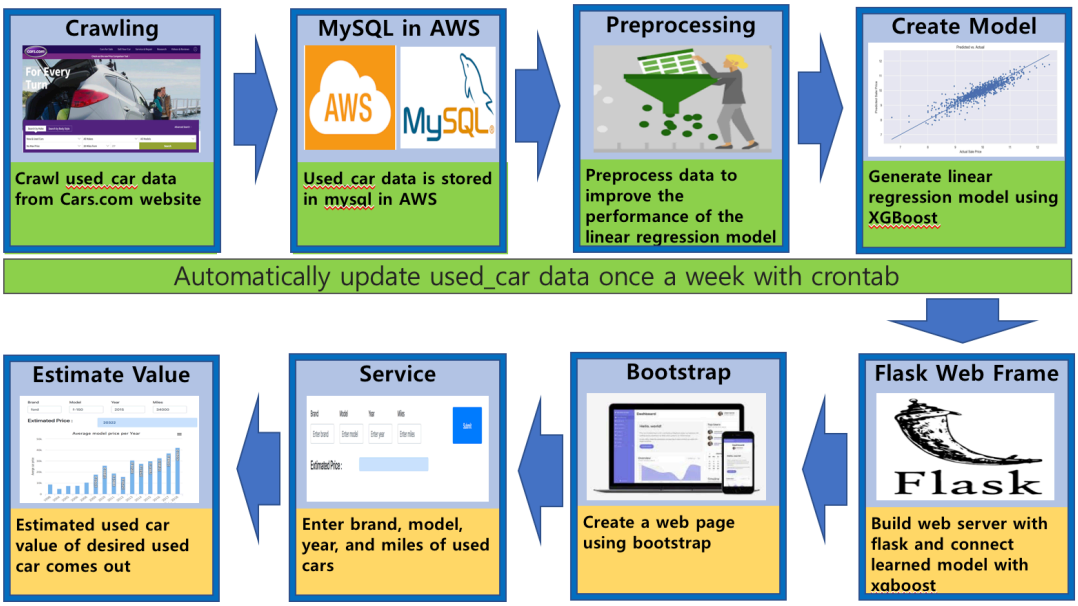
Purchasing Assistant Manager — **DEC 2013 - JUL 2015**
Kukdo Chemical Co.,LTD. — *Seoul, Korea*
Analyze price proposals, financial reports, market and other data

Purchasing Specialist — **OCT 2011 - NOV 2013**
Lotte Chemical Alabama Corp — *Auburn, Alabama*
Plan and purchase chemical materials from domestic and imported with economic conditions

PROJECT

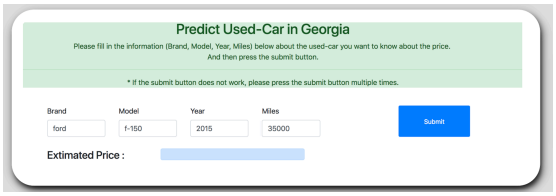
(1) Predict Used-Car Price in Georgia

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 :

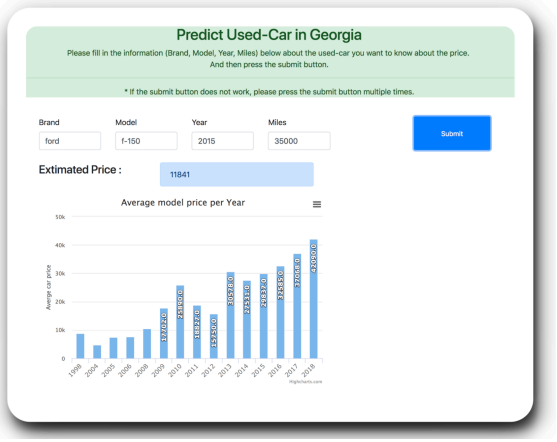


Service Website : http://dannyki.ga/
How to use the Service Website :

➜ Fill in the information and then press the submit button



➜ 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, Lowa
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

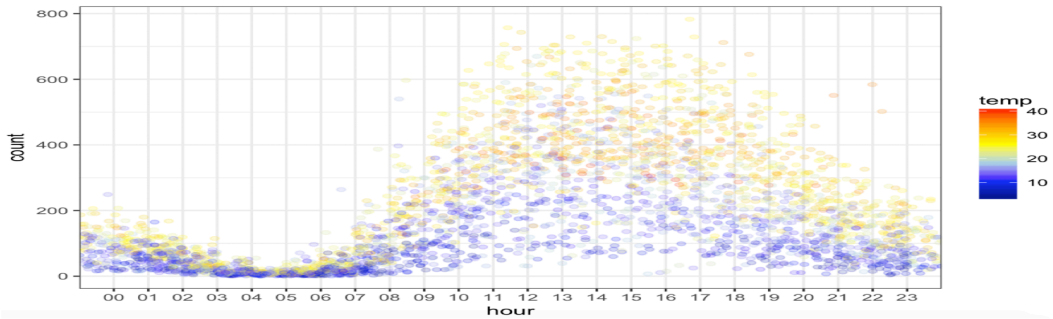
Subject : Predict survival on the Titanic
Period : 2018. 03 - 2018. 04
Data : Train Data - 12 variables and 891 data
Test Data - 11 variables and 418 data
Python : Preprocessing - Numpy, Pandas
Graph - Matplotlib, Seaborn
Models - DecisionTree, Randomforest, Adaboost, Support Vector Machine,
Naive Bayes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

```
Confusion Matrix :
 [[484  57]
 [ 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