

Danny Ki
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Education

- University of Wisconsin-La Crosse | Master of Science - Data Science** **Dec 2020**
- Cumulative GPA: 3.5 / 4.0
 - Relevant Coursework: Data Warehousing, Machine Learning, Data Analysis, Data Mining, Prescriptive Analytics
- Fast Campus | Data Science Intensive** **Jan.2018 - May. 2018**
- Completed intensive, five-month full-time career accelerator course with 800+ hours of professional training and practicum experience covering the full range of data science practices and tools
 - Relevant Coursework: AL/Machine Learning, NLP, AWS, Hadoop, Pig, R, Statistics
- Udacity | Programming Nanodegree - Data Analyst.** **May.2017 - Aug. 2017**
- Project-based programming credential
 - Learned the practice of determining patterns from data to predict future outcomes and trends
- Myoungji University | Bachelor of Business Administration** **Mar.2000 - Feb. 2009**
- GPA: 3.6 / 4.5

Experience

- Hyundai Powertech America | Data Scientist & Analyst – Smart Factory** *West Point, GA* **Jul. 2018 - Present**
- Created a machine learning model with Python and TensorFlow that optimize the inventory and reduce the cost
 - The data of the production line is inputted into the model made of TensorFlow to determine whether the product is defective or not. Accuracy is improved by 7% compared to defective inspection by quality personnel
 - Designed and analyzed an A/B test and provided a recommendation on optimized production plan [3.8% increase in daily production]
- Donwon Autopart Technology Georgia LLC | Sales & Analytics Manager** *Hogansville, GA* **Jul. 2015 -Dec.2017**
- Analyzing and/or supervising analysis on vast amounts of complex pricing-related data
 - Demonstrated efficiency of 2D barcode adoption in logistics management through data analysis [Since set up the 2D Barcode system, the incident of mislabel and late delivery reduced by 94%]
 - Analyzed customers (Kia, Hyundai Motors) production data from SAP and optimizes transportation time using R. Verified the hypothesis about the interval time to send driver to customer. [Trailer filling rate increased by 12% and reduced the number of drivers by 4]
- Kukdo Chemical Co.,Ltd | Assistant Purchasing Manager** *Seoul, Korea* **Dec. 2013 -Jul.2015**
- Analyzed price proposals, financial reports, market data and other data in the chemical industry
 - Cost reduction and supply stability through diversification of supply [Increased in seven suppliers from the existing four suppliers resulted in the main raw material price for hardener in 2014 compared to 2013 by 8% reduction (\$1,500,000)]
- Lotte Chemical Alabama Corp | Purchasing and Logistics Specialist** *Auburn, AL* **Oct. 2011 -Nov.2013**
- Maintained optimum stock levels within budget allowances and production requirements
 - Established ISO 9001 regarding procurement and logistics and obtained its certificate on 2013
- Kuehne + Nagel | Ocean Import LCL Intern** *Forest park, GA* **Nov.2009 - Sep.2010**
- Increased market share through Korean customer acquisition in USA [I was the first Korean employee at Kuehne-Nagel in USA]
 - Daily correspondence with 3 overseas agents (Hong Kong, Shanghai, Taiwan) and 80 carriers & local agents to ensure timely delivery of shipment

Projects [Portfolio website: <http://datavoyagerdanny.com/>]

Predict Used-Car Price Web Services | Project Manager

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

- Built a web scraper to gather data and stored in AWS and linear regression, XGBoost to predict the vehicle value
- Accuracy : 88%
- Tech: Data Scraping & Cleansing, Machine Learning, AWS, MySQL, Flask, Bootstrap, High Chart, Nginx

Digit Recognizer | Kaggle Competition

Kaggle Score: 0.98271

Rank: 1,139 / 2,502 (45.5%)

- Image analysis competition. Identify digits from a dataset of handwritten images by Neural Network using Keras
- Model layer: 2 Layers and each layer has 4 filter and filter size (5 x 5) and Relu activation function
- Tech: Keras, Convolutional Neural Network, Python (Numpy, Pandas, Scikit-learn)

Predict House Prices | Kaggle Competition.

Kaggle Score: 0.12384

Rank: 1,042 / 4,548 (22.9%)

- Found features that have the influence on house values and then predicted it by Ordinary Least Squares Model
- Built an Ordinary Least Squares Model (linear regression model) with R-square of 0.945
- Tech: Data Cleansing & Visualization, Linear Regression, Statistics, Python (Numpy, Pandas, Statsmodel)

Spooky Author Identification | Kaggle Competition.

Kaggle Score: 0.48767

Rank : 793 / 1,244 (63.7%)

- 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.
- Tech: NLTK (Natural Language Toolkit), Naive Bayes Classification, Python (Numpy, Pandas, Scikit-learn)

Key Skills

- Programming Language: Python, R
- Database: MongoDB, MySQL
- Big Data Tech: Hadoop, AWS, GCP, BigQuery
- Analytical Tools: Excel, Tableau, Power BI
- Machine Learning Tech: Tensorflow, Keras
- Toolkits: ERP, SAP, Git, Linux, Window, Outlook

Additional Training and Certificates

Coursera Certificates | Data Science

- Machine learning (*Andrew Ng*)
- Machine learning foundation (*Carlos, Emily*)
- Data Structures (*Alexander S. Kulikov*)
- Probability and data (*Mine*).
- Python programming (*Charles Severance*)
- Java Programming (*Susan H Rodgers*)