Jiwon Jeong

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SKILL SUMMARY

- An ML engineer equipped with both comprehensive skills and business instincts to develop a practical business solution
- **Summary of Modeling Skills**: Regression, Classification, Clustering, Visualization, Web Scraping, Recommendation Engine, Image Processing, Computer Vision, Natural Language Processing, PyTorch, Keras, Tensorflow, etc.
- **Programming Tool Skills**: Python, R, Spark, SQL, MongoDB, HTML, CSS

PROFESSIONAL EXPERIENCES

DataCamp
Data Science Online Project Instructor   *Jan 2019 – Present*
- Building a project tutorial for students on DataCamp (Soft Launch**: https://www.datacamp.com/projects/695**)

LG Chem
Research & Development of Mobile Battery   *Jan 2016 – Dec 2017*
- **Analyzing the hidden patterns in messy processing data** and enhancing the fabrication efficiency of batteries
- Fabrication of the curved cell for VR headset, Pouch sealing formation validation testing, Thin separator Hi-pot testing, etc.

PROJECTS

Skana
- Developing an **iOS application** providing the optimized shopping service for Korean beauty products by **image search engines**
- Applied skills: **Optical Character Recognition** with Tesseract, **Image Processing** with OpenCV, **Flask**, **SQLite**, Naver Cloud API
- **Demo Video**: **http://bit.ly/2kkwObi** / **Devpost**: **http://bit.ly/2lQqg4w**, May 12, 2019

TMDB Box Office Prediction
- Kaggle Competition predicting movie revenues with over 7,000 film data from TMDB, Scoring 1.724 RMSLE (**Top 18%**)
- Applied skills: Data Manipulation, Feature Engineering, **Residual Weighted Boosting**, Cross-Validation & 3 layer **Model Stacking**
- **Github**: **https://github.com/jjone36/tmdb**

Cosmetic Recommendation System
- Mapping cosmetic items based on their ingredients similarities and giving content-based recommendations
- Applied skills: Web Scraping with **Selenium**, **Word Embedding**, **Dimension Reduction** with t-SNE, Visualization with **Bokeh**
- **Github**: **https://github.com/jjone36/Cosmetic** / **Medium**: **http://bit.ly/2mgXpXc**, Nov 28. 2018

Cohort Analysis with RFM
- Customer segmentation analysis with retail purchase data using **RFM values** and K-means clustering
- Applied skills: Manipulating Time Data, **Feature Engineering**, Strong Visualization, **K-means Clustering**
- **Github**: **https://github.com/jjone36/Cohort** / **KDnuggets**: **http://bit.ly/2lNLWhQ**, Jan 6. 2019

Gender Prediction by Song Lyrics
- Analyzing song lyrics of top-ranking Billboard Chart and building a gender classification of a singer based on its lyrics
- Applied skills: **Web Scraping**, Text Mining with tidytext & tm package, Logistic Regression, SVM & XGBoost Modeling
- **Github**: **https://github.com/jjone36/lyrics** / **Medium**: **http://bit.ly/2m9tvEe**, Oct 13. 2018

EDUCATION & COURSES

Yonsei University
Master's Degree Candidate in Industrial Engineering   *Mar 2018 – Present*
- **Research on developing an IT business & services based on artificial intelligence**
- Analysis of evaluating users' reactivity on YouTube by categorical characteristics with statistical data
- Winning **Grand Prize** for **business solution for constructing an ICT testbed at DMC** Hosted by Seoul Business Agent, Dec 6, 2018

Hanyang University
Bachelor's degree in Material Science & Engineering: **GPA 3.8 / 4.0**   (4.1/4.5)   *Feb 2016*
- Understanding the physical & chemical mechanism of Semiconductors, Metals and Polymers

INTERESTS

Travel Lover, Bookworm, Gym Workout, Wines & Cheese, Visiting Art Gallery (Claude Monet & Egon Schiele), **SuperHero Movies**
- Check out the stories from *12 countries, 25 cities* **@jjone36**
- Favorite quote: "*The sadness was form, the happiness content. Happiness filled the space of sadness*" -Milan Kundera