

# Jiwon Jeong

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[jjone36.github.io/](https://jjone36.github.io/)

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## SKILL SUMMARY

- An ML engineer equipped with comprehensive machine learning skills and business sense to provide practical business solutions
- **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, PostgreSQL, MySQL, SQLite, MongoDB, HTML, CSS, etc.

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## PROFESSIONAL EXPERIENCES

### DataCamp

Data Science Online Project Instructor

Jan 2019 – Present

- Building a project tutorial on building a recommendation system with 4.4/5 ranks (<http://bit.ly/2nrqeB5>)

### 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.

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## 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/2lQg4w>, 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

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## 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**
- An 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

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## 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
- Favorite quote: "The sadness was form, the happiness content. Happiness filled the space of sadness" -Milan Kundera