(812) 272-3128 Bloomington, IN lee.jongwon.dev@gmail.com

Jongwon Lee

Data Scientist

Blog: Jongwon.net github.com/jongwoniee linkedin.com/in/jongwonjohnlee

SKILLS

- Data Science: Python, ML/DL TensorFlow, SQL, Decision Tree, Random Forest, SVM, Regression Tree, XGBoost, Catboost, LGBM, SHAP, SMOTE | NLP NLTK, Sentiment/Stance Detection, Transformer, GPT | Computer Vision Stable Diffusion, OpenCV, CNN Data Visualization D3, Plotly, Seaborn, Paraview, Tableau, Google Chart | Network Science Gephi, NetworkX, Neo4j, Cytoscape
- Software Engineering: Full Stack, Ruby on Rails, Redis, Node, React, Swift, AWS, Heroku, Search Engine, Postgres, Unity, C#
- Others: Excel, Git, R, LaTex, Arduino, EV3, MIS, UX/UI Research, English, Korean, Chinese

WORK EXPERIENCE

Data Scientist Volunteer | PolicyEngine | United States

APR 2023 — Current

• Investigate novel uses of AI such as GPT to make public policy more approachable.

Software Engineer | Sungkyunkwan University | University Bus Tracking App | Seoul, Korea

NOV 2017 — MAR 2019

- Conducted market research and developed a campus bus tracking app which resulted in 60%+ student population downloads.
- · Managed project budget and resources. AWS, Ruby on Rails, Java, Swift

Data Scientist Intern | Smilegate | Game Platform Business | Pangyo, Korea

JUN 2017 — AUG 2017

- Conducted NLP analysis on social media data to promote the Gaming Platform called Stove.
- Continued research involving a collection of social media data, keyword extraction, and web visualization won an AWS award.

Software Engineer | Likelion | Course Evaluation and Search | Seoul, Korea

OCT 2016 - MAR 2017

• Performed market research, planning, back-end development, server, and database management using Ruby on Rails and AWS.

PROJECTS AND RESEARCH

Property Sales Analysis and Prediction

AUG 2022 — DEC 2022

ML-based residential property prices prediction investigating housing properties. Leveraged Google Places, Melissa, Niche.com,
Stats Indiana Data. Best model: XGBoost, MAPE 11.53% - Linear Regression, SVM, XGBoost, Catboost, LGBM, SHAP

Social Media Community Identification and Analysis

AUG 2022 — DEC 2022

• Leveraged data from Twitter and explored community detection libraries and tools such as Gephi, NetworkX, Neo4j, Cytoscape.

Study Buddy Robot - Human Robot Interaction

AUG 2022 — DEC 2022

Led designing, building, and researching an Arduino-based interactive study buddy robot implementing Pomodoro technique.

3D Customer Segmentation Visualization with Paraview

AUG 2021 — DEC 2021

Performed feature exploration with 3D visualization using Kaggle customer segmentation data.

Evaluating Textual Features and Oversampling for Automatic Stance Detection

AUG 2021 — DEC 2021

Performed Natural Language Processing analysis on Twitter to research stance and sentiment. - NLTK/SVM/SMOTE

Systems Analysis and Design for CHRISTEL HOUSE INTERNATIONAL

JAN 2022 — MAY 2022

Proposed Data Collection Plan, KPI Management, Cost Benefit Analysis, and Implementation Plan for the client.

Oliver Winery Information Systems Research

AUG 2021 — DEC 2021

Identified issues and conducted Management Information Systems (MIS) approach to optimize operations for the client.

EDUCATION

M.S. in Data Science, Indiana University, Bloomington, IN 3.94 GPA	DEC 2022
B.A. in Economics, Minor in Informatics, Indiana University, Bloomington, IN	MAY 2020
B.A. in Global Economics, Sungkyunkwan University, Seoul, Korea / Full Scholarship by Samsung Electronics Co. Ltd.	MAY 2020

AWARDS

AUG 2017
DEC 2016
OCT 2016
SEP 2016
AUG 2016
AUG 2016