(812) 272-3128 Bloomington, IN jongwon@likelion.org

Jongwon Lee

Blog: Jongwon.net github.com/jongwoniee

Data Scientist/Analyst & Backend Developer linkedin.com/in/jongwonjohnlee

SKILLS

Data Science: Python, **ML** - Tensorflow, Logistic Regression, Naive Bayes, Decision Tree, Random Forest, KNN, Linear Regression, Lasso, Ridge, SVM, Regression Tree, XGBoost, Catboost, LGBM, SHAP, SMOTE, SQL, **NLP** - NLTK, KoNLPy, Sentiment and Stance Detection, **Statistics** - R, **Data Visualization** - D3, Plotly, Seaborn, Paraview, **Computer Vision** - OpenCV, CNN, **Network Science** - Gephi, NetworkX, Neo4j, Cytoscape | **Web/App Dev, Server:** Full Stack, Ruby on Rails, JS, Redis, Java, Swift, AWS, Heroku, Search Engine, Postgres | **Game Dev:** Unity, C# | **Others:** LaTex, Arduino, EV3, MIS, English, Korean, Chinese

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.

Overview of Human Robot Engagement - Bartender Robots

AUG 2022 — DEC 2022

Explored the definitions and research methods of engagement in HRI research by comparing three bartender robots.

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.

Jongwon.net - Tech Blog and Resume

JAN 2017 — Current

· Ruby on Rails-based website posting Tutorials, Projects, Research, and Resume developed from scratch. - AWS, Redis

WORK EXPERIENCE

Lead 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 from this experience involving a collection of social media data, keyword extraction, and web visualization won an AWS award.

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

OCT 2016 — MAR 2017

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

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

Omnisian.com AWS Power User Best 3 Amazon Web Service Korea	AUG 2017
Indie-Film Genie - Audience Prediction Grand Prize Sungkyunkwan University	DEC 2016
Nabla Puzzle Game with Unity Smilegate Game Jam Best 3 Smilegate	OCT 2016
Tost.com – English Academy Search Web Service Likelion Hackathon 5th Place Likelion	SEP 2016
Analysis on the Effect of Legal Cap on Phone Subsidies Grand Prize Sungkyunkwan University	AUG 2016
Forest Fire Early Detection and Suppression Tower with EV3 Grand Prize, Patent Sungkyunkwan University	AUG 2016
Undergraduate Full Scholarship Samsung Electronics, Co. Ltd	MAR 2013