(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, Tensorflow, Logistic Regression, Naive Bayes, Decision Tree, Random Forest, KNN, Linear Regression, Lasso, Ridge, SVM, Regression Tree, XGBoost, Catboost, LGBM, SHAP, SMOTE, NLTK, Sentiment and Stance Detection, R, SQL | **Data Visualization:** D3, Python (Seaborn, Plotly), 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, Search Engine, Postgres | **Game Dev:** Unity, C# | **Others:** LaTex, Arduino, EV3, MIS, English, Korean, Chinese

PROJECTS AND RESEARCH

Indiana 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 Problem 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

SKKOOLBUS - University Shuttle Bus Tracking Application Development and Team Leader Sungkyunkwan University

NOV 2017 — MAR 2019

Seoul, Korea

 Performed Market Research and coordinated with the university for budget and resources. 6k+ downloads out of 10k population AWS, Ruby on Rails, Java, Swift

Internship / Game Platform Business

JUN 2017 — AUG 2017

Smilegate

Pangyo, Korea

• Performed NLP analysis on scraped data from Twitter, YouTube, and Google to promote the Gaming Platform called Stove.

Back-end Developer and Team Leader / Course Evaluation and Search Service

OCT 2016 — MAR 2017

Seoul, Korea

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

EDUCATION

Master of Science in Data Science, Indiana University Bloomington / Graduated This Term 3.94 GPA	DEC 2022
Bachelor of Arts in Economics, Minor in Informatics, Indiana University Bloomington	MAY 2020
Bachelor of Arts in Global Economics, Sungkyunkwan University / Full Scholarship by Samsung Electronics Co. Ltd.	MAY 2020

AWARDS AND RECOGNITION

Omnisian.com / AWS Power User Best 3 / Amazon Web Service Korea - Team Leader

AUG 2017

• Collected Twitter data, extracted keywords, and generated reports on the web. AWS, Konlpy/NLTK, Python, Ruby on Rails

Indie-Film Genie - Audience Prediction / Grand Prize / Sungkyunkwan University - Team Leader	DEC 2016
Nabla Puzzle Game with Unity / Smilegate Game Jam Best 3 / Smilegate	OCT 2016
Tost – English Academy Search Web Service / Likelion Hackathon 5th Place / Likelion - Team Leader	SEP 2016
Analysis on the Effect of Legal Cap on Phone Subsidies / Grand Prize / Sungkyunkwan University - Team Leader	AUG 2016
Forest Fire Early Detection and Suppression Tower with EV3 / Grand Prize, Patent / Sungkyunkwan University	AUG 2016