Minyoung Her

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EDUCATION

Hanyang University   **Seoul, KR**
MS in Business Informatics   **2024 - 2026**
- Relevant Modules: Machine Learning, Data mining, Business Analytics

Chungbuk National University   **Cheongju, KR**
BA in Sociology, Information Statistics (GPA: 4.0 / 4.5)   **2018 - 2024**
- Relevant Modules: Nonparametric Function Estimation, Exploration into Data Analysis, Deep Learning, Machine Learning

Bugil Academy   **Cheonan, KR**
High School   **2014 - 2017**

RESEARCH EXPERIENCE

AI fire solution   **CBNU DAI lab**
Research Report   **Sep – Dec. 2023**
- Developed an algorithm for reducing non-fire false alarms through industrial collaboration research in a natural language processing laboratory in CBNU.
- Applied the TinyVGG model using CNN to conduct research on classifying fire images and normal images.
- The target performance was set to have a 1-FPR(False Positive Rate) of 80 or above, and the final performance achieved approximately 83, meeting the target performance.

Fraud detection model using deep learning model   **CBNU**
Individual Essay   **Apr – Jul. 2023**
- Developed a deep learning model capable of analyzing and classifying financial transactions into normal or fraud.
- Improved the performance of the model by using artificial neural network structures to address the issue with data imbalance; the XGBoost model achieved the best performance with an accuracy of 88%.

Image Classification using Convolutional Neural Network (CNN)   **CBNU**
Individual Project   **May – Jun. 2023**
- Created a simple CNN model to classify and predict fashion image data using Pytorch and achieved 88% accuracy.

Annual Expenditure Data Analysis Project   **CBNU**
Individual Project   **Jan. – Mar. 2023**
- Collected consumer-related data from my personal expenditure data of 2022, including credit card usage history, Kakao Pay expenditure records, and bank transfer records; utilized Python to conduct data pre-processing and analysis.
- Created various types of data visualization to display the characteristics of data and organized ways to reduce superfluous financial spending.

Reflection on Aging Anxiety: A Comparison between Young Adults and Middle-aged Adults   **CBNU**
Team Research Presentation   **Mar. – Jun. 2022**
- Conducted an investigation to examine the various factors influencing aging anxiety in young adults and middle-aged adults, comparing data from middle-aged adults to identify any differences in variables.
- Derived data from 2011 Korean General Social Survey (KGSS) with aging anxiety defined as the dependent variable and age, health status, gender, employment status, and religious beliefs defined as independent variables.
- Conducted multiple regression analysis, including problem identification, data collection, pre-processing, analysis, and interpretation of results.

PUBLICATIONS

- Minyoung Her, Jae-Hwan Jhong. "Interpretation of a change point detection problem via adaptive lasso penalty and its application." *Journal of the Korean Data & Information Science Society 34(6):1013-30*

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Student Council   **CBNU**
General Affairs   **Mar. – Jun. 2019**
- Participated in student council and was responsible for planning and organizing overall student activities and events.
- Reviewed relevant budgets to ensure events were planned accordingly and delegated tasks to appropriate students and board members.
- Prepared audit reports and supporting documents to Audit Committee on three separate occasions.

EF Language Program   **Singapore, SG**
Exchange Student   **Apr.- Aug. 2021**
- Participated in language study abroad program in Singapore and met people from various backgrounds and nationalities.
- Created and led an English book club with members who were interested in reading and discussing books once a week.
- Taught classes in English and prepared teaching materials and relevant exercises for the lessons

- Received a C2 level assessment in the final English proficiency evaluation from CFER (Common European Framework of Reference for Languages)

MILITARY SERVICE

Korea, Army   **Gapyeong, KR**
soldier   **Sep. 2019 – Mar. 2021**
- Former Army sergeant, honourably discharged from the Capital Mechanized Infantry Division.

CERTIFICATES

- TOEFL IBT:103 (September 04, 2022)
- Survey Analyst, Junior (September 01, 2023)

ADDITIONAL SKILLS

Languages   English (Advanced), Korean (Native)
IT Skills   Python, R, SAS(Statistical Analysis System), and SPSS(Statistical Package for Social Sciences)