Eury Sohn

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Education

University of Wisconsin-Madison *Wisconsin, US*
MS in Information | 3.7/4.0 *September 2022 - Current*
- Researcher at NLP Lab
- **Courses:** Data Science, Programming for Data Science, SQL, Statistical Theory and Methods, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Statistical Learning

Yonsei University *Seoul, Korea*
BS in Technology and Management | 4.15/4.3 *March 2017 - August 2022*
- Worked as Teacher's Assistant and Researcher at AI analytics lab
- **Scholarship:** Social Innovation Scholarship (2019 - 2021)

Work Experience

Volvo Trucks *Maryland, US*
Continuous Improvement Intern / Lean Manufacturing Data Science Intern *May 2023 - Present*
- Assisted in the creation of Volvo Production System SCM by developing application and metrics via python algorithms.
- Significantly boosted the model's accuracy from 60% 82% via feature extraction via develop labelling guidelines for DL and create efficient SQL queries by relational database methods.
- Creation of intranet application via Powerapps & Powerautomate & PowerBI, SQL integration for radar charts for continous improvement and digitisation.
- **Technical Skills:** Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, Sharepoint, Microsoft, SQL.

University of Wisconsin Madison *Wisconsin, US*
Graduate Research Intern *April 2023 - Present*
- Classification and model building via unsupervised methods and feature selection for topic extraction in field of NLP
- Automated OU analytics to manage pipeline and develop deal shape for 3 core offers.
- Created ethnic prediction model via Naive Bayes machine learning with accuracy of 85% with 95% AUC.
- **Technical Skills:** Feature Selection, Linear Regression, Sentiment Analysis, K-means clustering via Pandas, ROC, Naive Bayes.

Ministry of Environment *Seoul, Korea*
Consultant *June 2022 - December 2022*
- Optimize warehouse storage and provide insight through Linear Programming. Build predictive models of future predicative trends via website scraping and cleansing.
- Developed SQL database and pipeline flow cutting down query costs by 12%
- Mitigate impact of risks in decision making via creation of knowledge handbook in both Korean and English.
- **Technical Skills:** Selenium, Beautiful Soup, SQL, Linear Programming.

Recoffery *Seoul, Korea*
Data Scientist *March 2019 - March 2022*
- Creation of focus group interviews, expertise transcript topic extraction via LDA, decreasing time spent on project by 8%
- Creation of GPS system using API integration for optimised fuel use, increasing profit margin by 27% via Linear Programming and Operational Research.
- **Technical Skills:** API Integration, PyLDA, NLP, Bert, Topic Extraction, Warehouse Optimisation .

University Projects

Global Engagement forum *Incheon, Korea*
UN Sustainable Development *July 2022 - August 2022*
- Developed a new business model to win first place while coordinating cross-functionally within a team environment, winning first place.
- Creation of heuristic testing metrics and research design for NGOs by creating Power BI

TIPA *Incheon, Korea*
Yonsei University *Nov 2021 - Dec 2022*
- Reverse Engineer graphs into table format while classifying graph type and creating vectorized images via scalar algorithms.
- Use of unsupervised for computer vision models and innovative threshold standards.
- **Technical Skills:** Python with Pandas, Image detection, Image classification, Edge detection, Node classification.

Achievements

2020	**1st Place**, Social Innovation through Makerspace Idea Contest	*Korea*
2019	**1st Place**, KOICA Social Innovation Policy Competition	*Korea*
2019	**1st Place**, Krafton VR Culture Analysis	*Korea*
2018	**1st Place**, Yonsei-Nexon RC Creative Platform	*Korea*

Skills

Programming $Python, SQL, R, MongoDB, Excel$, Machine Learning, Keras, Pytorch, Linear Programming, NLP, Topic Selection, Sentiment Analysis, Tableau, ERP & TMS system, Image Classifcation, Supply Chain Management, SQL.