Seunggyun Shin

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EDUCATION

University of Illinois at Urbana-Champaign *Champaign, IL*
Master of Science in Business Analytics; Conc in Info Tech & Control *(GPA: 4.0 / 4.0)* *Expected Graduation: May 2024*
Bachelor of Science in Statistics; Minor in Informatics *(GPA: 3.6 / 4.0)* *August 2016 - May 2023*

PROFESSIONAL EXPERIENCE

Caterpillar Inc *Champaign, IL*
Data Analyst *September 2023 - Present*
- Engaging in Caterpillar's outbound freight optimization initiative focused on forecasting linehaul and fuel costs
- Validating regression models for innovative and actionable business strategies to minimize superfluous expenses
- Communicating with the company and conducting industry research to ensure coherence with project direction

SangAh Management Consulting *Seoul, Korea*
Data Analyst *July 2021 - August 2021*
- Designed a model to predict severity levels of Change Orders during plant constructions to prevent unfair contracts
- Leveraged text mining to create binary data and fitted classifiers, focusing on F1 scores to minimize potential risks
- Developed a classifier with 84 percent accuracy and an R Shiny web application as a reference for client negotiations

EXTRACURRICULAR EXPERIENCE

Illini Datathon with Synchrony *Champaign, IL*
Team Leader *March 2024*
- Explored Synchrony's telephonic data logs to enhance IVR system, prioritizing calls transferred to representatives
- Analyzed patterns from IVR records of transferred calls and re-calls through visualizations and machine learning
- Identified defects within mobile payments and proposed system renewal for cost reduction and customer satisfaction

Data 4 Good Case Competition at Purdue University *Champaign, IL*
September 2023 – November 2023
- Directed a team to extract information from 12K medical consultation transcriptions, securing a ranking of 14/281
- Utilized LLM such as Llama 2 and GPT after Regex pre-processing to harvest objective information from texts
- Completed Microsoft Azure training, acquiring proficiency in cloud computing and infrastructure management

Data Science & Artificial Intelligence Society *Champaign, IL*
Data Analyst *September 2022 – May 2023*
- Aggregated CDC health survey data to contrive an algorithm that provides personalized health recommendations
- Conducted statistical analysis and established classifiers to notify potential risks in liver and cardiovascular diseases

Data Campus with Korea Data Agency *Seoul, Korea*
Program Nominee *June 2021 - July 2021*
- Certified for completion of an exclusive data science program covering statistics, machine learning, and DBMS
- Participated in a data analytics competition devising impactful business solutions and achieved a 3rd-place ranking

PROJECT

Gies College of Business's Contribution to UN ESG goals *October 2023 – December 2023*
- Assembled faculty publication data through Python web scraping to evaluate the college's impact on 17 ESG goals
- Operated textual analysis to identify and categorize relevant information based on goals using a keyword dictionary
- Visualized time-series trends in Gies publications with Wolfram Mathematica and delivered insights to the college

Flipside Crypto Analysis *November 2023 – December 2023*
- Executed ad-hoc analysis on NFT sales trends and developed dashboards to provide references for potential buyers
- Pre-processed NFT sales data with SQL queries and utilized Flipside API in Python to archive data on MongoDB
- Optimized analytic processes and visualized data through KNIME, ensuring scalability and interactivity with DB

SKILLS

Skills: R, Python, SQL, Tableau, Excel, PowerPoint, Wolfram Mathematica, AWS, Azure, MySQL, Mongo DB, KNIME
Certificates: Advanced Data Analytics Semi-Professional (Korea Data Agency), Microsoft AZ-900, SQL Developer (Korea Data Agency), UIUC Data Science Certificate
Language: Korean (native), English (native)