

Seohee Sunny Yoon

akheyn029@gmail.com | 470-838-2401 | [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

Skills

- **Programming Languages:** Python, SQL, PySpark, Scala, Java, C, JavaScript, R
- **Tools:** Tableau, Pandas, Numpy, Scikit-learn, Excel, Matplotlib, Seaborn, D3, AWS, Adobe Analytics
- **Courseworks:** Database Technology, Machine Learning, Natural Language Processing, Data Visualization

Work Experience

Graduate Research Assistant, SocWeb Lab - Atlanta, GA

Feb 2025 – Present

Supervisors: Dr. MunMun De Choudhury

- Collaborating with interdisciplinary teams to analyze digital trace data using machine learning and NLP, uncovering insights into mental health discourse
- Conducting research to develop a methodology to identify how bias against mental health entities is generated by LLMs using the toxicity rabbit hole framework

Data Analytics Intern, PTKOREA - Seoul, South Korea

Jun 2024 – Aug 2024

- Managed 20+ daily customer-reported issues including dashboard errors and data inconsistencies using Jira and Tableau
- Validated time-sensitive data in response to client-specific requirements using Excel, SQL, and Adobe Analytics, ensuring system stability and data quality
- Led QA testing for business dashboards with engineers and product managers, driving system performance improvements and increased user engagement

Undergraduate Research Assistant, C21U Lab - Atlanta, GA

Aug 2022 – Dec 2023

Supervisors: Dr. Jeonghyu Lee, Dr. Meryem Yilmaz Soylu

- Enhanced assessment quality by translating problem-solving approaches into data-driven solutions, applying the Depth of Knowledge (DOK) framework
- Improved regression model performance by 25% in prediction precision through feature engineering with TF-IDF techniques and data augmentation

Education

Georgia Institute of Technology - Atlanta, GA

Master of Science in Computer Science

Expected Dec 2025

Bachelor of Science in Computer Science

May 2024

Projects

Implicit Emotion Classification

- Optimized emotion dataset processing, reducing training time by 20% through regular expressions and feature engineering
- Accomplished model improvements from 64% to 88% in accuracy and F1 Score by integrating BERT with a domain-specific knowledge graph

Respiratory Diagnosis Assistant

- Developed a web-based respiratory diagnosis assistant application, utilizing GRU networks to classify respiratory diseases from audio data
- Integrated Amazon S3 and MongoDB for efficient data storage and retrieval, managing large-scale audio and metadata for real-time machine learning inference
- Improved audio classification accuracy from 70% to 83% by incorporating data augmentation techniques such as noise addition, pitch shifting, and MFCC feature extraction

Database Application Project

- Implemented relational data models and normalized schemas in MySQL to support an airline management system
- Created SQL views, queries, and procedures to analyze flight operations, crew activity, and passenger behavior, enabling scenario-based analysis and reporting