Seohee Yoon

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Education

Georgia Institute of Technology	**Atlanta, Georgia**
Master of Science in Computer Science	*Aug 2024- Dec 2025*
Bachelor of Science in Computer Science	*Jan 2022 - May 2024*

Experience

PTKOREA	**Seoul, South Korea**
Big Data Analysis and Operation Assistant Intern	*Jun 2024 – Aug 2024*

- Organized and maintained data for over 1,000 customer accounts, using Jira and Tableau to track and resolve account-related issues efficiently
- Managing the periodic modification and mapping of databases to cater to the needs of professionals, ensuring system consistency and reducing errors in Excel
- Participated in team meetings with international clients, enhancing communication and resolving complex customer issues

Data Driven Education, Georgia Institute of Technology	**Atlanta, Georgia**
Research Assistant - Data Scientist	*Aug 2022 – Dec 2023*

- Applied machine learning techniques (Random Forest, Decision Trees, Support Vector Machines) to predict difficulty levels of assessments based on the Depth of Knowledge (DOK) framework, reducing prediction errors by 50% using random forest algorithms
- Scaled the dataset size from 50 to 900, improving the random forest model's accuracy by 50% compared to the baseline
- Evaluated multiple regression models using Python and scikit-learn, resulting in improved accuracy of assessment difficulty predictions for educational research

Projects

Respiratory Diagnosis Assistant	*Feb 2024 – May 2024*

- Developed a machine learning-powered web app for lung sound classification, enhancing diagnostic accuracy from 70% to 83% by implementing a GRU model and data augmentation techniques
- Managed data using MongoDB and Amazon S3, integrating the database with Django to improve data accessibility

Stock Market Prediction Project	*Feb 2024 – May 2024*

- Predict stock price changes using several machine learning algorithms such as Support Vector Regression, Linear Regression, and LSTM
- Evaluate linear regression models using K-fold cross-validation, resulting in 95% accuracy in prediction
- Visualize prediction results from various models and compared each accuracy using Tableau

Scene Recognition with Deep Learning Project	*Nov 2023*

- Implemented a CNN model (SimpleNet) with PyTorch to classify scenes with 2 convolutional layers, improving accuracy through data augmentation and regularization techniques.
- Enhanced pretrained resnet from pytorch's API by modifying layer of model to get a testing accuracy of 85%

Campus Discovery Service Project	*Aug 2022 – Dec 2022*

- Collaboratively engineered a Campus Discovery Service Application with a team of 5 within an Agile framework comprising 6 sprints
- Designed user interface and user experience for five iOS application screens, employing JavaScript and React Native
- Utilized version control systems and enhanced team collaboration by integrating and consistently using GitHub for code management and project tracking

Skills

Python, Java, MySQL, Git, NumPy, Pandas, C#, Assembly Programming, C, React, Tableau, JavaScript, React Native