Seohee Yoon

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| 470-838-2401 | [akheyn029@gmail.com](mailto:akheyn029@gmail.com) | Atlanta, GA | <https://syoon029.github.io/> |  |
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Education

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

Experience

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| **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

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| **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

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| **Respiratory Diagnosis Assistant** | *Feb 2024 – May 2024* | *September 2023* |

* 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

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| **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

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| **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%

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| **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