

Minseo Kim

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EDUCATION

The Pennsylvania State University

Bachelor of Science in Computational Data Sciences, GPA: 3.91/4.0

University Park, PA

Expected May 2025

- The President Walker Award, 2022: Scholastic award for academic excellence

WORK EXPERIENCE

Penn State Nittany AI Alliance

Data Science Intern

State College, PA

January 2024 – Present

- Develop a machine learning model to predict ticket sales for the entertainment business box office using Python and Scikit-learn collaborating with machine learning engineers in an agile workflow
- Improve the ML model's performance by 12% to achieve an R-squared value of 0.86 using the XGBoost, through data modification and hyperparameter tuning
- Analyze and visualize the trend in ticket sales by month utilizing Python libraries such as NumPy and Pandas

Navy Federal Credit Union

Data Visualization Analyst Intern

Vienna, VA (Remote)

May 2023 – August 2023

- Created an interactive data visualization report on Fintech Usage and a user-friendly menu page, utilizing Microsoft Power BI and Azure Databricks
- Conducted thorough data analysis, aiming to comprehend the dependencies of tables in a relational database and choose appropriate data visualizations for the report

Penn State College of IST and Penn State College of Engineering

Undergraduate Teaching Assistant

State College, PA

August 2022 – December 2023

- Mentored 60 students in Python and Java Programming classes by holding a weekly review session and holding office hours twice a week
- Assisted professors and graduate teaching assistants during class by reviewing class materials

PROJECT

Statistical Learning Project

August 2023 – December 2023

- Developed a house price prediction model using XGBoost in R and ranked in the top 14% of the class
- Implemented an unsupervised learning model involving clustering and PCA techniques to predict the Reddit topic from user comments

Course Enrollment Scheduler Project

August 2023 – December 2023

- Designed and implemented a Java-based course enrollment scheduler application, utilizing a database-driven architecture and developing an SQL database

LionFoodTracker: An app that analyzes food waste at universities

Team Leader

January 2023 – April 2023

- Led a team to achieve Top 20 ranking in the idea phase of the Penn State Nittany AI Challenge, receiving a \$500 prize, and earned the Dave Hall Award in the Bardusch Family IdeaMakers Challenge
- Designed a dashboard that presents AI image detection-driven food waste data analysis, utilizing Figma

INVOLVEMENT & LEADERSHIP

Penn State Residence Life

Resident Assistant

June 2022 – Present

- Receive LLC (Living Learning Community) Engagement Award for demonstrating exceptional leadership by actively engaging with IST residents and creating an inclusive and safe community
- Oversee 67 students and manage conflicts effectively through clear communication with dormitory residents

Lightbulb Junior Enterprise

Director of Marketing

September 2021 – May 2023

- Collaborated with fellow e-board members to organize general body meetings and oversee logistics
- Planned marketing strategies to reach local restaurants and customers for food delivery business

SKILLS

Languages: Python, Java, R, SQL, Korean

Tools: NumPy, Pandas, Scikit-learn, Power BI, MongoDB, Azure Databricks, Scikit-learn, Figma