

# 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 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