

YOON KIM

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EDUCATION

Purdue University	West Lafayette, IN
B.S. in Applied Statistics, GPA: 3.59	Dec 2024
Applications in Data Science Undergraduate Certificate	Dec 2024
<i>Relevant Coursework:</i> Intro to Time Series, Data Science Labs on Probability, Applied Regression Analysis, Assistive Technology, Statistical Programming, Statistical Theory	
Foothill College	Los Altos Hills, CA
A.S. for Transfer in Mathematics - With High Honors, GPA: 3.7	Dec 2022

RESEARCH EXPERIENCE

Purdue University	West Lafayette, IN
<i>Undergraduate Researcher, CoLiberation Lab</i>	Aug 2024 – Present
<ul style="list-style-type: none">Designed and implemented Natural Language Processing models, utilizing large language models (LLMs) to convert complex web content into plain language for a web extensionIntegrated and optimized text-to-speech functionalities within the extension, focusing on natural language generation and user experience to enhance digital accessibility for users with vision and cognitive impairments	
Purdue University	West Lafayette, IN
<i>Undergraduate Data Science Researcher, The Data Mine Department</i>	Aug 2023 – May 2024
<ul style="list-style-type: none">Spearheaded preprocessing and analysis of large-scale datasets for a seed germination project using SQL and Python, ensuring data integrity for advanced statistical modelingDeveloped and applied statistical models (multivariate regression, ANOVA) to identify critical environmental and genetic factors impacting seed quality, yielding actionable insightsCollaborated with Beck's Hybrids Inc. to deliver data-driven insights and presented key findings, influencing strategic planning in agricultural R&D	

PROFESSIONAL EXPERIENCE

Qcells Georgia Inc.	Cartersville, GA
<i>Quality Engineer, Manufacturing Technology Quality Management</i>	Mar 2025 – Present
<ul style="list-style-type: none">Architected and established a centralized database to streamline data collection and management for the customer claim dashboard across three Qcells facilitiesDesigned, developed and deployed comprehensive data dashboards, providing critical, real-time insights into key performance indicators and customer claim trendsCollaborated with cross-functional global teams to translate complex quality data into actionable insights, driving continuous improvement in manufacturing processes	
Laon People Inc.	Gyeonggi, South Korea
<i>Data Analytics Intern, R&D Department</i>	May 2023 – Jul 2023

- Performed statistical analysis on extensive image datasets for NAVI AI software, significantly contributing to the identification and classification of abnormal data for improved model robustness
- Developed advanced data visualizations (Image balance, Aspect ratio, and color distribution) of training image datasets using Python, providing critical insights into data characteristics for Vision AI solution development
- Collaborated with a research team to conduct rigorous outlier analysis and develop statistical response operating models, enhancing the reliability and performance of AI solutions

RESEARCH INTERESTS

My research interests lie in **Human-Computer Interaction** and **Artificial Intelligence** to advance **Accessibility** for individuals with disabilities. I aim to develop AI-driven solutions that enhance the accessibility and quality of healthcare services.

HONORS & AWARDS

ASA DataFest 2024 – Best Data Visualization	2024
Dean’s List: Purdue University & Foothill College	2021 – 2024

TECHNICAL SKILLS

- **Programming Languages:** Python (Advanced), R (Advanced), SQL (MySQL, PostgreSQL), Java, JavaScript, HTML/CSS, CLI, Perl
- **Data Analysis & ML Libraries:** Excel, Pandas, NumPy, SciPy, Statsmodels, Scikit-learn, Tidyverse, ggplot2, OpenCV
- **Statistical & ML Techniques:** A/B Testing, Linear Regression, Logistic Regression, Hypothesis Testing, ANOVA, Time Series Forecasting, Clustering, Decision Trees, Statistical Modeling, Bayesian Modeling
- **AI Frameworks:** TensorFlow, PyTorch
- **Data Visualization:** Tableau, PowerBI, Matplotlib, Seaborn, Plotly
- **Other Tools:** Github, Jupyter Notebooks/Lab, RStudio, LaTeX

CERTIFICATIONS

Data Structures and Algorithms – UC San Diego (Coursera)	Expected Dec 2025
Operating Systems and You: Becoming a Power User – Google (Coursera)	Expected Dec 2025
Google Data Analytics Specialization – Coursera	Nov 2023

LEADERSHIP, INVOLVEMENT & COMMUNITY ENGAGEMENT

Mentee, Women in Big Data Mentoring Program, Women in Big Data	Aug 2024 – Nov 2024
Student Affiliate, Tech Justice Lab, Purdue University	Jul 2024 – Present
Quality Assurance Analyst, American Red Cross - NHQ	Jun 2024 – Present
Outreach Manager, Women in STEM Club, Foothill College	Jul 2022 – Dec 2022

PROFESSIONAL AFFILIATIONS

Association for Computing Machinery (ACM) - Member	2025 - Present
Alpha Alpha Alpha (Honors society for first-gen college students) - Member	2024 - Present
American Statistical Association (ASA) - Member	2023 – Present