

Ju Ho Kim

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SKILLS

Data Science & Machine Learning: Predictive Modeling, Statistical Analysis, Machine Learning (Regression, Classification, Clustering), Natural Language Processing (NLP), Model Evaluation

Data Preparation, Analysis, and Reporting: Exploratory Data Analysis (EDA), Feature Engineering, Data Cleaning, Data Wrangling, Visualization

Data Engineering: ETL Pipelines, Schema Design, Data Lineage, Web Scraping

Programming & Databases: Python (Pandas, NumPy, Scikit-learn, Streamlit, Joblib), SQL (PostgreSQL)

Version Control & Collaboration: Git, GitHub

EXPERIENCE

Data Science Undergraduate Researcher Jan 2026 – Present
Lawrence Berkeley National Laboratory *Berkeley, CA*

- Architecting a unified SQL database and Dash dashboard for ENIGMA (10-year national research project) to centralize disparate datasets, enabling multi-institutional scientific teams to streamline data discovery and exploration

Data Analyst Intern Jun 2024 – Aug 2024
Global ESG Foundation *New York, NY*

- Built and enhanced a decision-ready Streamlit dashboard by wrangling and transforming global CO₂ emissions data into stakeholder-oriented metrics (country, absolute volume, growth rates), enabling clear, actionable insights for ESG analysis and decision-making
- Successfully presented the solution to leadership in a quarterly board meeting and delivered the tool as a maintainable Git repository, enabling continued use and iteration beyond the internship

Medical Evacuation Coordinator Nov 2020 – Apr 2022
Sixth Division, Republic of Korea Army *Gangwon, South Korea*

- Provided rapid-response medical support for demining operations in high-risk border zones, coordinating with UN forces under GPS- and communication-denied conditions to ensure mission-critical evacuations
- Identified a division-wide gap in navigation resources and independently created a route-mapping system for drivers; adopted across multiple units, earning a commendation from a two-star general

PROJECTS

News Article Political Bias Classifier | *Python, PyTorch, Hugging Face, NLP, Web Scraping*

- Achieved 69.7% classification accuracy on 24K+ news articles spanning 13 years, earning top-project recognition and a graduate TA-level, production-ready evaluation
- Built and scaled an end-to-end NLP pipeline from raw HTML to model-ready text, designing robust preprocessing workflows (web scraping, normalization, deduplication) to ensure reproducibility and model reliability

Consumer Default Risk Modeling | *Python, Scikit-learn, Logistic Regression, Decision Trees*

- Predicted financial default risk using a complete ML modeling workflow (Logistic Regression, Decision Trees), earning strong faculty recognition for modeling decisions and evaluation
- Enhanced model interpretability by identifying ‘Balance’ as the key risk driver through Sigmoid curve visualization and streamlined deployment using Joblib for model persistence

Global CO₂ Emissions Dashboard | *Python, Streamlit, Plotly, Pandas, Data Visualization*

- Developed an interactive dashboard to explore global CO₂ emissions trends (1960–2023) with volume and growth analysis across 205 countries
- Implemented multi-layer data cleaning to exclude non-country aggregates, enabling accurate country-level comparisons

AWARDS

Honors in Mathematics Scholarship Award (Dean’s List) | *Pasadena City College* Jun 2025

Commendation for Operational Excellence | *Sixth Division, Republic of Korea Army* May 2022

EDUCATION

University of California, Berkeley Expected May 2027
B.A. Statistics, College of Computing, Data Science, and Society *Berkeley, CA*

Pasadena City College Aug 2023 – May 2025
Associate of Science, Computer Information Systems *Pasadena, CA*