Tae Kun Kim

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EDUCATION
UC San Diego – B.S. Data Science
June 2023
- Provost Honors (six terms) – Unweighted GPA 3.88 / 4.00
- Courses: Intro to ML, Probability and Statistical Methods, Data Analytics, Data Structures and Algorithms in Java and Python, Recommender System, Deep Learning, Big Data Platforms, Multivariable Calculus, Linear Algebra

TECHNICAL SKILLS
Language: Proficient: Python, Java, SQL; Familiar: R, Stata, C, Go, JavaScript, HTML / CSS
Data Science: PyTorch, Pandas, SciKit-Learn, RegEx, Numpy, BeautifulSoup, GeoPandas

EXPERIENCES

Research Intern, Hippo T&C
July 2022 – current
- Cleans and analyzes over 250 individuals' fNIRS time-series neuroimage data to study how depression patients' brains react to everyday tasks, as well as develop digital therapeutics, in partnership with Samsung Medical Center.
- Builds linear ML models to cluster fNIRS images into depression and control group – collaborating with researchers with medical education background while contributing computer and statistics expertise to the research group.

Software Engineer, Homehub
June 2021 – March 2022
- Initiated and led a **Python API** development project from scratch – enabled automatic email notifications to be sent between customers and developers; thereby allowed developers to stay alert to frontend and backend errors.
- Leveraged **Boto3** and **CRON** to automatically back up **AWS EC2** database to **S3** for a startup company.
- Create and review **design documents** and **unit tests** in meetings with designers, engineers, and data scientists.

Data Science Intern, CUNA Mutual Group
June 2021 – August 2021
- Worked with **SQL**, **Azure Snowflake**, and **R** to join and process data tables of over 70 million consumers.
- Trained and calibrated **XGBoost machine learning models** on financial and business data; identified potential customers and their expected lifetime contribution to the company's revenue.
- Eliminated 87.5% of manual labor by identifying ineffective **ML** input variables – performed **Logistic Regression** and built and scored **models** using **model metrics** such as AUC scores and Enrichment Factors.
- Uncovered and presented areas of need to over 20 business stakeholders, which led to further investigations.

Lab Research Intern, Qualcomm Institute
November 2020 – March 2021
- Organized data for a research paper that proposes a novel highway physics formula – collaborated with a research scientist and data scientists to discuss how data science can help add veracity to the research paper.
- Prepared data for **Artificial Neural Network** by cleaning traffic signals from over 39,000 detectors on highways – picked up applicable traffic domain expertise within weeks, ensuring data integrity.

Tutor of Data Science Department, UCSD
Octover 2021 – March 2022
- Guided 150+ students and taught graph theory, continuous/ discrete algorithms, and data structures in office hours.
- Assisted professor with creating and grading weekly assignment, maintaining course website, and facilitating exams.
- Interacted with students from 10+ different countries; developed listening-centric communication skills that encourage students to independently acquire knowledge.