

Keith Kwanghyun Lee

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Education

New York University

MPH in Biostatistics / B.S in Sports Management (GPA 3.7/4.0)

New York, NY

Sept 2021 – May 2023

- Coursework: **Regression I: Linear Regression and Modeling, Generalized Linear Models and Extensions, Machine Learning in Public Health, Claims Data Analysis, Applied Survival Analysis, Intermediate Statistical Computing in R**, Biostatistics in Public Health, Research Methods, Psychometric Measurement and Analysis

General Assembly

Software Engineering Bootcamp

New York, NY

Jun 2023 – Sep 2023 (expected)

- Front-End Development/Frameworks, APIs, and Full-Stack Development

Project Experience

Loan Eligibility Prediction using Machine Learning

[Loan Eligibility Prediction](#)

Apr 2023

- Conducted exploratory data analysis, train & test split, and applied machine learning algorithms; logistic regression, linear support vector machine, nearest centroids, decision tree, and random forest in Python to predict loan eligibility
- Logistic regression and random forest produced the highest test accuracy with 0.79 and 0.86, and for feature importance, DecisionTreeClassifier supported that 'ApplicantIncome', 'LoanAmount', and 'Credit_History' are the most influential features

Predicting Strength of Concrete via Linear Regression

[Strength of Concrete](#)

Dec 2022

- Developed a linear regression on a concrete strength data, which consists of 1030 records / 9 variables, to assess the effect of predictors on the strength of concrete
- Conducted exploratory data analysis, modeling, model diagnostics, transformation, and prediction

Experience

General Assembly

Software Engineer Fellow

New York, NY

Jun 2023 – Sep 2023

- Architecting and building fully responsive front end web applications using HTML, CSS, Javascript, React, and third-party API integrations
- Developing full-stack applications and designed REST APIs with full CRUD functionality using React, Javascript, Node.js, Express, Sequelize, PostgreSQL, and Ruby on Rails
- Applied knowledge of key languages and computer science concepts, including algorithms, data structures, databases, and MVC pattern design to developing high quality and maintainable code

Global Psychiatric Epidemiology Group at Columbia University / NY State Psychiatric Institute

Biostatistics Intern / Research Assistant

New York, NY

Jun 2022 – Aug 2022

- Conducted exploratory data analysis on two waves of clinical data that contains 855 participants record from 9/11 World Trade Center study
- Performed cleaning and re-formatting variables, multivariate analysis, and organizing results in R to help finding an association between direct/indirect 9/11 exposure and psychiatric/physical health outcome
- Assisted Stress and Well-Being Study interview in-person or remotely and organized full report including clinical issues

SCL Healthcare Group (South Korea's top clinical laboratory company / member of MIT ILP)

Business Development and Strategy Analyst

Seoul, South Korea

Jun 2019 – Jan 2021

- Participated in a 5-man team to develop business strategy for Central Laboratory services that generates \$100M revenue by analyzing KPIs
- Assisted Hanaro Medical Foundation (affiliate of SCL) business strategy team to create numerous analysis reports on 112 corporate clients
- Reviewed more than 50 telemedicine literatures to assess the company's prospective business model

Boston Consulting Group, Inc.

Summer Research Assistant

Seoul, South Korea

Jun 2016 – Aug 2016

- Conducted analysis on financial statements of a large Korean conglomerate with 20+ subsidiaries to determine the viability of a potential internal merger resulting in the formation of a holding company structure
- Generated more than 20 benchmark reports for senior consultants on general operation practices of global financial institutions and insurance companies

Technical Skills & Language

Computer skills: R, Python, Ruby, SQL, noSQL, Express, Tableau, HTML, CSS, JavaScript, React, Node.js, Express, Git, Github

Analysis: A/B Testing, Hypothesis Testing, Regression Analysis, Survival Analysis, Claims Data Analysis

Languages: Korean (Native), Mandarin (Basic)

Interests: Tennis, golf, photo shoot with Canon F1 film camera using expired films, weightlifting, hiking