

ADAM MCNELIS MAHMOUD

Berkeley, CA 94704 | February 2025

📞 (916) 996-5404 ✉️ adam.mcmoud@berkeley.edu 🔗 [linkedin.com/in/adam-mcnelis-mahmoud](https://www.linkedin.com/in/adam-mcnelis-mahmoud) 🌐 adammcnelismahmoud.com

EDUCATION

University of California, Berkeley

B.A. in Data Science - concentration in Applied Math and Modeling

B.A. in Applied Mathematics - concentration in Numerical Analysis

August 2022 – May 2026 (Expected)

Berkeley, CA

GPA: 3.9

EXPERIENCE

Admissions Exam Reviewer

February 2025 – Present

Stanford University Mathematics Camp (SUMaC)

Remote

- Holistically assess admissions exams for SUMaC (Stanford's advanced summer math program for rising high school juniors and seniors), evaluating students' mathematical creativity, logical reasoning, and proof-based problem solving beyond rigid rubrics.
- Deliver comprehensive written evaluations assessing students' mathematical creativity and problem-solving skills, shaping admission decisions for top candidates.

Data Intern

January 2025 – Present

Fung Institute for Engineering Leadership, UC Berkeley

Berkeley, CA

- Analyze student and alumni data to evaluate program impact, drive improvements, and inform strategic decisions for the Fung Fellowship and Master of Engineering programs.
- Maintain and develop databases for program operations and project management, utilizing Salesforce and Google tools to ensure accurate data entry and management.
- Develop data visualizations for use by teaching and program teams, sharing insights with internal and external stakeholders.

Data Analyst

September 2023 – Present

Enrollment Management (EM) Department, UC Berkeley

Berkeley, CA

- Query, clean, and visualize student demographic and academic data using Tableau, Excel, Python, and SQL.
- Collaborate with department heads and data analysts to communicate data insights, both in technical terms and in clear, accessible narratives, to inform strategic enrollment decisions.
- Conduct data analysis to determine the number of admissions required to meet in-state residency targets for the 2024 academic year, directly contributing to the enrollment of over 800 additional in-state students, a 1% increase compared to previous years.
- Develop the EM website by designing and implementing interactive, data-driven visualizations to showcase enrollment trends and student demographics. Write HTML code for specific elements to ensure accessibility and enhance the user experience.

TECHNICAL SKILLS

Coding: Python, SQL, R, Java, HTML, CSS, JavaScript

Libraries: Numpy, Pandas, Scikit-learn, Matplotlib/Seaborn

Data Analysis Tools: Tableau, Excel, Google Sheets, Power BI, ATLAS.ti

Specializations: Data Wrangling, ETL, A/B Testing, Predictive Modeling

RESEARCH

Exploring Indian Non-Governmental Organization (NGO) Distribution

January 2024 - May 2024

UC Berkeley Data Science Discovery Program

Berkeley, CA

- Collaborated with Daanmatch to analyze funding allocation for 10,000+ Indian NGOs, standardizing address data with RegEx and developing reproducible workflows using Git.
- Conducted exploratory data analysis, cleaning, and visualization in Python (Pandas, Seaborn, Matplotlib), presenting findings at the Data Science Discovery Program Symposium.

EXTRACURRICULAR

MPS Scholars Program Mentor

August 2024 – Present

Mathematical and Physical Sciences (MPS) Scholars Program, UC Berkeley

Berkeley, CA

- Mentor math majors in the MPS Scholars Program through bi-weekly group and individual meetings, providing academic guidance, sharing experiences, and fostering community to support their success.

PROJECTS

Cook County Housing Price Prediction | Python, Scikit-learn, Pandas, Matplotlib, Seaborn

October 2024

- Built a predictive housing price model using Scikit-learn, applying EDA, feature engineering (outlier removal, log transformations, one-hot encoding), and linear regression on 500,000+ records.
- Evaluated model performance on validation data and mitigated potential biases by analyzing historical disparities and trends.

RELEVANT COURSEWORK

Data Science: Foundations of DS, Computational Structures, DS Principles, Data Structures, Numerical Analysis for DS

Mathematics: Multivariable Calculus, Linear Algebra, Discrete Math, Abstract Algebra, Analysis, Complex Analysis