

Kenneth Hahn

+1(951) 207-2607 ✉ hahnkenneth@berkeley.edu  [LinkedIn](#)  [Github Portfolio](#)

PROFESSIONAL SUMMARY

Aspiring Data Scientist with 4+ years of experience as a Chemical Engineer, specializing in process optimization and data-driven decision-making. Proven track record of driving efficiency improvements for companies like Tesla and Procter & Gamble by leveraging engineering insights and statistical analysis. Currently pursuing a Master's in Data Science at UC Berkeley, combining technical expertise with advanced data science skills to deliver innovative solutions to complex problems.

EDUCATION

University of California, Berkeley

Expected: August 2025

Masters of Information and Data Science | 4.0 GPA

Relevant Coursework: Applied Machine Learning, Fundamentals of Data Engineering, Statistics for Data Science, Data Science Programming, Research Design and Applications for Data and Analysis

University of California, Berkeley

May 2020

B.S. Chemical Engineering, Minor in Mechanical Engineering | 3.6 GPA

SKILLS

Programming Languages: SQL (MySQL, Postgres), Python (Tensorflow, Keras, XGBoost, NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn), R, NoSQL (Neo4j), MATLAB, HTML

Data Visualization and Analysis: JMP, Tableau

Other Tools: AWS, Github, LaTeX, COMSOL, Visual Studio, RStudio

PROJECTS

Regression Analysis of Used Car Prices

September 2024

- Participated in Kaggle Competition to predict used car prices based on the Brand, Model, Color, Fuel Type, etc.
- Created models using Linear Regression with l1 and l2 regularization, XGBoost, and Random Forest Regression.
- Also developed a neural network with Keras, implementing Embedding Layers for highly cardinal text data.

Sustainable Bay Area Delivery Service

August 2024

- Created a Neo4j NoSQL Graph Database of BART, customer, and store locations within the Bay Area.
- Determined relationships between nodes by utilizing Google Maps Direction API to determine travel duration between two given nodes via BART or e-bike.
- Used Louvain Modularity and Dijkstra's shortest path algorithms to determine optimal new store locations to be within 40 minutes of any given customer.

EXPERIENCE

Tesla

Fremont, California

Battery Pack Process Engineer

February 2022 – July 2024

- Created process for a new subassembly line via Postman API calls to parallelize workload and increase production of Model S/X battery packs by 33%.
- Decreased electrical resistances in battery pack to assist in safe operation of the vehicle, resulting in a statistical reduction of 57,430 defects per million to 98 defects per million.
- Improved leak test processes implementing statistical process controls, reducing the number of off-road vehicles and saving the company \$800K/year.
- Developed Tableau Dashboards to monitor critical equipment KPIs for the new Cybertruck launch.

Procter and Gamble

Sacramento, California

Hydrogenation Fatty Alcohol Manufacturing Engineer

August 2020 - February 2022

- Experimented and executed an increase to site throughput of Fatty Alcohol Product by 1%, resulting a site revenue gain of approximately \$3M/year, without the use of capital spending.
- Implemented process control strategies to tune a pressure control valve to allow higher pressures in the reactors. This led to a 0.2% increase in reaction completions and overall throughput (\$600K/year improvement).
- Decreased Downtime by 5% (438 hours) through identification/mitigation of top contributors with Pareto Principle.