Michael Brennan-Kleyn

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EDUCATION AND HONORS

San Francisco State University, School of Engineering and Applied Science — San Francisco,CA
Bachelors of Science in Applied Mathematics | Minor in Computer Science — 2021-2023
- GPA: 3.59 | Dean's List
- First Generation Student
- Relevant Coursework: Statistical Learning & Data Mining, Probability & Statistics, Data Structures, Software Development

Pasadena City College: Pasadena, CA — 2020-2021
Santa Monica College: Santa Monica, CA — 2018-2020

PROFESSIONAL EXPERIENCE

Tao He's Laboratory (in affiliation with UCSF) — San Francisco,CA
Research Assistant — 2022-Current

- Used modern machine learning techniques to evaluate novel T-cell genetic data and their antigenic properties.
- Developed a predictive classification pipeline to map high-dimensional genomic data to cell types of cancer patients.
- Tested and implemented TCR classification models and results from multiple academic papers.

San Francisco State University — San Francisco, CA
Computer Science Tutor — 2022 - Current

- Recruited by SFSU Computer Science leadership to lead weekly discussion and prep sessions for students.
- Mentored and provided problem sets for entry level Computer Science and Java students.

EPS America — Los Angeles, CA
Warehouse Logistics Manager — 2015-2017

- Managed groups of ~10 workers from local halfway homes for the previously incarcerated from San Quentin prison for onsite operations involving inventory, maintenance, and shipment of product.
- Initiated the redesign of the floor plans for the Los Angeles and New York warehouses. End result was a safer workplace environment for forklift operators and an increase of average inventory capacity by 27%.

PROJECTS AND LEADERSHIP

Russian IRA Agent Classifier — R, Python
- Created a suite of ML tools (Logistic/Lasso/Ridge Regression, Random Forest, Naive-Bayes) to attempt a classification problem of classifying tweets as being possibly written by IRA agents, using natural language processing techniques.
- Wrangled tweet data from ~3 million tweets with 27 features. Using NLP this was made into a sparse term-document matrix of 671,000 observations, and 883,000 unique features.

Effective Altruism Club
President — 2018-2020
- Started the Effective Altruist club at Santa Monica College to connect motivated students driven to maximize their positive effect on the world with the broader EA college communities such as UCBerkley, Stanford, and USC.
- Grew membership to 34 members, held bi-weekly meetings discussing EA research and future job opportunities, and planned community engagement activities.

EDUCATION AND HONORS

Programming Languages: Python, Java, R, SQL, C++

Libraries: Python *(eg. scikit-learn, numpy, pandas, matplotlib)*, R *(eg. ggplot2, dplyr, tidyverse, h2o)*, SQL

Data Science & Miscellaneous Technologies: A/B Testing, Data Science Pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Experimental Design, Hypothesis Testing, OOP, OOD, Excel