Samuel Elijah Edwards

San Francisco Bay Area| 209-290-7569 | s_edwards@berkeley.edu | https://samuel-elijah-edwards.github.io/

EDUCATION

University of California, Berkeley   **Expected Graduation: May 2024**
B.A. Data Science | *College of Letters and Sciences*
Relevant Coursework: Data Structures, Data Mining & Analytics, Causal Inferences and Decisions, Principles & Techniques of Data Science, Probability & Mathematical Statistics in Data Science, Linear Algebra and Differential Equations

PROFESSIONAL EXPERIENCE

Student Library Work Leader | University of California, Berkeley | Berkeley, CA   *Jun 2022 - Present*
- Managed circulation of over 40 million books using a library management system and communicating with universities across the country.
- Assisted an average of 50 patrons daily with questions and concerns about library operations and providing solutions to patrons.
- Organized employees during shifts and delegated tasks to ensure proper and efficient library operations by utilizing knowledge from specialized training.

Primary Education STEM Instructor | University of California, Berkeley | Berkeley, CA   *May 2022 – Sept 2022*
- Developed personalized educational plans to address each student's unique learning needs, goals, and challenges.
- Tracked and documented students' progress, identifying areas of improvement and implemented strategies to address academic weaknesses.
- Participated in professional development workshops and training sessions to stay updated on the latest teaching techniques and STEM advancements.

Founder/Instructor | Self-Employed Mathematics Tutoring Services | Stockton, CA   *Nov 2018 - Jan 2019*
- Instructed adult students in high-school-level mathematics and developed educational plans to prepare them to take the GED Exam.
- Coordinated time and location scheduling with clients and ensured participation through phone call reminders and daily e-mails.
- Administered practice GED exams to students bi-weekly and analyzed exam performance to better support academic needs.

LEADERSHIP & EXTRACURRICULARS

Simulations Data Analyst | Space Technologies and Rocketry (STAR) | Berkeley, CA   *Sept 2023 - Present*
- Collected data from rocket navigational systems and telemetry, then processed the data to use in data analysis and visualization.
- Discovered trends in data that is used to adjust and optimize flight trajectories of rockets, increasing flight altitude by 30%.

Data Analyst | Collatz Conjecture – UC Berkeley Mathematics Department | Berkeley, CA   *Mar 2022 - Present*
- Assisted in research of the Collatz Conjecture, contributing to the exploration and potential solution to this unsolved problem.
- Created high-level mathematical models to present solutions, adjusting the accuracy of a machine learning growth predictor.

PROJECTS

Stock Valuation Prediction Model
- Used Google Finance API to collect historical market data and utilized forecasting models to predict future stock prices of companies.
- Developed web scraping algorithm to identify relevant mergers and acquisitions in the news to increase accuracy of forecast predication by 10%.

Film Genre Classifier
- Designed a k Nearest Neighbor classifier trained for differentiating film genres and classifying films using a data set of over 5000 words.
- Classifier made predications of film genres with 92.5% accuracy on a data set with over 10000 films from the Box Office.

Autocorrected Typing Software
- Developed an autocorrecting algorithm for a typing software that includes typing games and testing, inspired by "typeracer".
- Implemented multiplayer features by connecting multiplayer server to a and distributed software to enjoy typing games with friends.

Exo-Planet Classifier
- Utilized a Neural Network and Clustering algorithms to classify exo-planets by size from a data set produced by NASA with 400 planets.
- Neural Network made predictions with 86% accuracy while maintaining a speedy runtime.

Big 5 Sporting Goods Online Data Scraper
- Created an online data scraper for Big 5 Sporting Goods to extract data on daily promotions and exported data into a CSV file.
- Analyzed data to determine price differences of products with and without promotions and analyzed price trend for various products.

SKILLS & INTERESTS

Skills: Python, R, SQL, Machine Learning, Data Analysis, Statistical Modelling, Data Mining, A/B Testing, Financial Modeling, Causal Inference, Tableau, Market Research
Interests: Football, Fitness, R&B, Video Games, Biking, Philosophy, Greek Mythology, Music Festivals, Sudoku, Spike ball