Alaysha Zarate

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EDUCATION

University of California, Berkeley | Berkeley, CA *Expected Graduation Date May 2025*

Pursuing a B.A. - Data Science (Emphasis: Inequalities in Society)

Relevant Coursework: Structure and Interpretation of Computer Programs • Data Structures • Foundations of Data Science • Principles and Techniques of Data Science • Justice and Data • Linear Algebra • Differential Equations • Calculus II • Designing Information Devices and Systems I • Discrete Math and Probability Theory • Probability for Data Science • Data Mining and Analytics • Computer Simulations in Python • Data, Inference, and Decisions • Data, Prediction, and Law, Data Inference and Decisions • Advanced Programming in R • Introduction to Artificial Intelligence

Los Angeles Mission College (Dual Enrollment)| San Fernando, CA *Summer 2018 - Summer 2021*

Relevant Coursework: Introduction to Computers and Their Uses • Python Programming.

Vaughn Next Century Learning Center | San Fernando, CA *August 2017 - June 2021*

Relevant Coursework: Intro to HTML and CSS • Calculus I

SKILLS

Languages/Technologies: Java, Python, HTML, CSS, Git, Regex, Jupyter Notebook, Matplotlib, Pandas, BNF, SQL, Seaborn, R

Soft Skills: Leadership, Detail oriented, Strong interpersonal skills, Independent and collaborative work, effective problem-solving skills, written and verbal communication, administrative experience, Bilingual/Biliterate (English and Spanish)

PROJECTS

Project 1 | DataGood - Gun Violence and Gun Control Project Manager
- Led a team of 6 members in a 12-week project focused on analyzing Gun Violence and Gun Control
- Instructed weekly technical workshops that teach real-world application of data science skills
- Utilized Python, Pandas, Seaborn, and Matplotlib to perform data analysis & create data visualizations

Project 2 | Multicultural Institute - Data Analyst
- Developed a detailed demographic and performance analysis report for The Multicultural Institute, a nonprofit dedicated to expanding opportunities for immigrant families, aimed at enhancing donor engagement, boosting program effectiveness, and raising brand visibility on a broader scale

Project 3 |2018 Primary Election Data Analysis
- Created 2 causal inference models (simple regression and multiple confounders) to determine whether endorsements from political figures affected the primary success of a Democratic candidate
- Created 4 GLM/non-parametric models (logistic regression, decision tree, random forest) to determine if demographics and financing affected the primary success of a Democratic candidate
- Used various forms of model checking to improve the models such as IPW, bootstrapping, and k-fold cross-validation

Project 4 | Predictive Customer Analysis
- Created a model that predicts consumer purchases based on their consumption behaviors and habits
- Used dimensionality reduction, PCA, TSNE, and UMAP clustering then evaluated these customer profilings based on the clusters
- Implemented a Random Forests predictive model to predict campaign (promotional deals) acceptance

WORK EXPERIENCE

Berkeley Dining *October 2021 - Present*

Student Supervisor *May 2023- Present*
- Supports the management staff in general administrative tasks such as filing, and data entry, as well as more project-based work including hiring
- Leads and directs the team of Student Leads; including maintaining floor lead coverage
- Problem-solving in a timely manner, handles student scheduling issues, and assists in maintaining equipment
- Assigns tasks or works in the areas of food production, customer service, on-the-job training, administrative duties, and quality control in a front-of-the-house or back-of-the-house environment

Crew Lead *March 2022 - May 2023*
- Led student food service workers responsibly and maintained order in the facility
- Provided additional administrative work/effective communication skills; communicated with supervisors and managers in person, through emails, spreadsheets, etc

Food Service Worker *October 2021 - March 2022*
- Provided general assistance to professional food service personnel; communicated effectively with a diverse workforce; cleaned and assembled kitchen production equipment; effective communication skills
- Adjusted production to meet customer demand; evaluated the overall quality of products or ingredients used for production