

Elias Saravia

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EDUCATION

University of California, Berkeley

Berkeley, CA

Masters of Information and Data Science (3.8 GPA)

Aug. 2022

B.A. Applied Mathematics and Data Science

Dec. 2020

SCET Certificate in Entrepreneurship & Innovation

Dec. 2020

Relevant Coursework: Data Structures, Natural Language Processing and Deep Learning, Applied Machine Learning, Data Visualization & Communication, Experiments and Causal Inferences, Time Series Analysis

SKILLS

Programming Languages: Python, Java, R, HTML, Javascript, CSS, SQL, MATLAB

Machine Learning: Tensorflow, NLTK, Sklearn, PyTorch

Data Visualization Analysis: Pandas, Numpy, Matplotlib, Plotly, ggplot, Tableau, D3, Vega-lite, Altair

Data Engineering: Airflow, Azure, AWS, Snowflake, BigQuery, Docker, Hadoop, Kafka, Presto, Spark

Product Management: Agile, Confluence, Feature Prioritization, Jira, Kanban, Market Analysis, ML Ops

Other Tools: Git, Jupyter, QGIS, Linux, Splunk, Microsoft Office

PROFESSIONAL EXPERIENCE

American Express

Mar. 2023 - Present

Associate Product Manager

- Create descriptive user stories for backend and front end development teams, direct agile scrum ceremonies (i.e. stand ups, retrospectives, show & tells, etc.), and lead feature prioritization across sprints and product iterations (PIs). Successfully planned 3 PIs with confidence scores of 4.65 / 5 or greater.
- Analyze, solution, and manage year-long projects (e.g. audits, tech uplifts, API integrations, operational risk events, etc.) end-to-end by working cross-functionally with teams and delivering all projects in a timely manner.
- Collaborate with analytics, UI, and UX teams to lead research projects using design thinking and A/B experiments that have innovated the product and increased AR, customer acquisition, and engagement.
- Won the J.D. Power Award for Customer Lending in Customer Acquisition.

UC Berkeley College of Computing, Data Science, and Society

Jan. 2019 - Mar. 2023

Program Manager and Developer

- Managed over 12 project teams developing a data science curriculum with instructors for over 3,000 students every semester across diverse disciplines.
- Created a 5-year statistical summary report on the program's performance and presented to stakeholders at national and regional conferences.
- Led outreach efforts to expand data science curriculum regionally, internationally, and globally. Increased the number of stakeholders in our program by 150% and funding by 25%.

Lawrence Berkeley National Lab

Feb. 2021 - Aug. 2021

Associate Software Developer

- Developed a parametric simulation tool for a prototype HVAC system that increased the simulation capabilities by over 400%, helped reduce operational and life cycle costs by 75% and developed a data visualization dashboard for metrics.
- Built and integrated an hourly building load and weather forecaster with model predictive controls using a Tensorflow recurrent neural network.
- Set up a Docker environment for team members to run simulations and conduct testing and analysis for reproducibility

One Degree

June 2020 - Aug. 2020

Data Scientist

- Constructed an ETL data pipeline to automate the intake of employee hours tracking and IT ticket data to output a data analytics dashboard for stakeholders.
- Wrote and presented a data proposal for their premium service after conducting usability testing.

PROJECTS

Twitter Hate Speech Detection

May 2022

- Developed a machine learning algorithm to detect hate speech in user tweets and presented a donut chart of potential hate speech categories represented in the tweet in order to reduce targeting online and promote empathy among users.

Technologies: Python, PyTorch, HTML, Javascript, CSS, Sklearn, Matplotlib, Herokuapp, Pandas

Instagram Ads User Experiment

Apr. 2022

- Conducted a 2x2 multifactor experimental design using A/B testing on Instagram users to test whether or not a free shipping label or product modeling increased user engagement.

Technologies: R, ggplot, Meta Experiments

IMDb Movie Rating Prediction

Dec. 2021

- Created a machine learning algorithm to predict the rating of a movie before its release based on IMDb data (e.g. budget, genre, keywords, etc.), movie scripts, and Youtube API (e.g. views, likes, etc.).

Technologies: Python, sklearn, beautifulsoup, pandas, Matplotlib, Jupyter

HONORS & AWARDS

School of Information Fellowship

Code2040 Fellow

NSF LSAMP Research Scholar

UC Berkeley Leadership Scholar

Google Generation Scholar

UC Berkeley Data Scholar