

Shahin Karami

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Employment History

Research Data Analyst 2

Contractor State License Board | Exam Development Unit

Sacramento, CA

December 2024 – Present

- Actively working to reduce department budget through the digitization of Examination Booklet used at test centers.
- Evaluating the impact of regulatory changes on the examination item content and making appropriate changes.
- Optimizing the number of Subject Matter Experts brought in for workshops based on updated compensation rates.
- Participated in Hiring panel for Graduate Student Assistant.
- All other duties mentioned in Research Data Analyst 1 role.

Research Data Analyst 1

Contractor State License Board | Exam Development Unit

Sacramento, CA

December 2023 – December 2024

- Drafts occupational analysis report to inform the public of both demographic and scope of practice trends.
- Performs ongoing statistical analysis to evaluate performance of 8 licensing examinations.
- Analyzes examination data to identify poorly functioning exam items (across 4,400+ items).
- Successfully doubled Subject Matter Expert compensation through a comprehensive analysis of past workshops data.

Graduate Research Assistant

World Bank | Global Education Policy Dashboard

San Luis Obispo, CA

January 2023 - June 2023

- Collaborated with members of The World Bank in analyzing survey data from public and primary school officials to explore the role public officials have on educational outcomes.
- Led the implementation of a Double Machine Learning method to deliver a precise range of estimates (0.5 p.p - 10 p.p) of the effect of bureaucratic perceptions on educational outcomes.
- Produced a technical report highlighting the effectiveness of Double Machine Learning compared to traditional regression methods.

Personal Projects

Forecasting Load Shape using XGBoost and Prophet

Python

- Visualized, analysed, and discussed 16 years of PJM load shape data.
- Utilized XGBoost and Prophet models to forecast hourly energy consumption.
- Conducted a thorough analysis of error metrics between both models, favoring XGBoost conclusively.
- Developed and trained an XGBoost model for predicting energy consumption, enabling accurate next-day forecasts.

UEFA Champions League Historical Data Dashboard

Tableau

- Created a Tableau Dashboard for visualizing historical competition statistics spanning from the 1992/93 to 2021/22 group stage.
- Showcased crucial metrics, including appearances for coaches, players, and teams, as well as goals scored by both players and teams.

Exploratory Data Analysis of UK Vehicle Accident

TSQL

- Thoroughly cleaned, transformed, and meticulously prepared UK Road Safety datasets using Python, ensuring data clarity and reliability.
- Utilized Microsoft SQL Server Management Studio to conduct exploratory data analysis on UK Road Safety datasets.

Education

California Polytechnic State University

MS in Quantitative Economics | GPA: 3.92

San Luis Obispo, CA

June 2023

University of California, Santa Cruz

BAs in Mathematics & Economics | GPA: 3.45

Santa Cruz, CA

June 2021

Leadership

Vice President: Iranian Students Union

Leadership position focused on connecting Iranian student through social media and member outreach.

UC Santa Cruz

June 2020 – June 2021