

Shahin Karami

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Summary of Qualifications

Graduate of California Polytechnic State University with a MS in Quantitative Economics, combining a strong theoretical foundation with practical expertise in econometrics. Proficient in utilizing a wide range of tools, including Python, SQL, R, Tableau, and Excel, to extract actionable insights from data. Eager to leverage this skill set, honed through coursework, personal projects, and research, to tackle complex data-driven challenges and drive informed decision-making.

Education

California Polytechnic State University

MS in Quantitative Economics

San Luis Obispo, CA

June 2023

University of California, Santa Cruz

BA in Mathematics & Economics

Santa Cruz, CA

June 2021

Work Experience

Graduate Research Assistant

World Bank | Global Education Policy Dashboard

San Luis Obispo, CA

January 2023 - June 2023

- Collaborated with The World Bank in analyzing survey data from public and primary school officials to explore the role public officials have on educational outcomes.
- Implemented 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.

Teaching Assistant

Orfalea College of Business

San Luis Obispo, CA

September 2022 - June 2023

- Held weekly office hours and one on ones with students to better assist them with course material.
- Tasks included: Grading exams, projects, weekly assignments, and proctoring exams as needed by course instructors.

Research Assistant

UCSC Economics Department

Santa Cruz, CA

April 2020 - December 2021

- Conducted literature review on vaccine hesitation and adoption methods under Dr. Kristian Lopez Vargas.
- Assisted with the development of an online Intermediate Microeconomics Theory Course.
- Drafted original course notes for Producer Theory, Competitive Markets, and Game Theory.

Personal Projects

Hourly Time Series Forecasting using XGBoost and Prophet

Personal Project | [Available on my website](#)

- Utilized XGBoost and Facebook's Prophet models to forecast hourly energy consumption.
- Conducted a comparison of error metrics between both models, favoring XGBoost conclusively (5.74% MAPE vs. 12.06% MAPE).
- Developed and trained an XGBoost model for predicting energy consumption, enabling accurate next-day forecasts.

UEFA Champions League Tableau Dashboard

Personal Project | [Available on my website](#)

- 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 by SQL

Personal Project | [Available on my website](#)

- 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.

Using Machine Learning to Create Price Prediction for Tokyo Based Real Estate Company

Personal Project | [Available on my website](#)

- Performed extensive exploratory data analysis employing the SweetViz Python Package.
- Carried out correlation analysis using ANOVA and the Pearson Correlation coefficient.
- Developed a robust Gradient Boosting Regression model with a MAPE of 0.49% to predict real estate prices.
- Conducted in-depth model analysis, affirming the reliability and efficacy of the Gradient Boosting Regression model.