Elizabeth Ortega

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EXPERIENCE

Director of Strategic Data Analysis

UC Davis   **February 2025 – Present, Davis, CA**

· Analyzed multidimensional data sets encompassing student, financial, and HR information from Oracle ERP systems using SQL, Python, Tableau and Power BI, structuring findings to enable informed decisions by College of Engineering leadership.
· Developed interactive dashboards utilizing Power BI and Tableau to enable efficient interpretation of financial data (overdrafts and carry forward) and research grant data (proposals and expenditures) for university leadership saving 8+ hours of time over creating Excel reports.
· Collaborated with units across campus including central data teams to increase data standardization with analysts on campus.
· Compiled and analyzed institutional data in alignment with reporting standards for the U.S. News & World Report Best Engineering Schools.
· Increasing data security controls in the college when sharing and storing data across units and departments.

Data Scientist

UC Irvine   **June 2020 – January 2025, Remote**

· Analyzing & forecasting using over a million records of student, financial, employee data using SQL querying, R, Python & Power BI to support decision making by campus leadership ranging from deans to department managers and streamline processes such as Academic Recovery for advising – saving 10+ hours of time per advisor at quarter end.
· Designing, developing & testing data visualizations, dashboards, statistical reports, tools and analysis for all academic units on campus and establishing & deploying a BI system for the campus used by over 500 users across UCI.
· Developed machine learning models and dashboards for undergraduate admissions for over 100,000 applicants to the university with high accuracy –replacing a vendor model saving the university over $150,000 yearly.
· Consulting with users daily to assist in using tools and dashboards accurately and requirement gathering to independently develop and implement custom technical solutions collaboratively for users in Power BI focusing on creating a quality user experience.
· Cleaning and manipulating source data, troubleshooting data integrity & quality issues, and writing and debugging SQL queries and Python code from 20+ sources on campus and externally including Slate admissions data, DegreeWorks, student data warehouse data, CampusGroups, UCPATH personnel data, Financial Services data, College Board data, and National Student Clearinghouse data.
· Maintaining, monitoring and assisting ETL pipelines using Python scripts for data sources across campus.

Senior Statistical Data Analyst (also Data Analyst)

Schoolsfirst Federal Credit Union   **October 2016 – June 2020, Tustin, CA**

· Developing, testing and. benchmarking statistical predictive models using SQL, R and SAS to model loan originations, credit losses and financial statements for financial portfolios across the credit union totaling over $15 billion.
· Creating engaging, informative and understandable presentation materials using Excel, PowerPoint and SAS to aid senior management in making decisions in yearly planning committees and meetings assessing financial risk across different potential economic scenarios.
· Mentoring and training a team of 5+ analysts in statistical modeling and coding best practices.
· Creating quality control processes for the team of analysts preventing errors and inaccurate reporting.
· Creating documentation process for all statistical models and validated models through external statistical audits yearly.

Statistical Consultant

Statistical Consulting Group CSULB   **January 2016 – July 2016, Long Beach, CA**

· Performing statistical analysis and data cleaning for clients using R, SAS, SPSS, Minitab.
· Statistical consulting for faculty and community members needing assistance.
· Collaborating with a faculty member on writing a published journal article also presented at a national conference.

EDUCATION

Master's Degree in Statistics

CSU Long Beach · Long Beach, CA · 2017 · 4.0

Bachelor's Degree in Economics

Minor in Statistics · Cal Poly San Luis Obispo · San Luis Obispo, CA · 2013

SKILLS

SAS Certified Base Programmer, MS Excel, MS PowerPoint, MS Word, Advanced SQL queries, R, Python, Tableau, SPSS, STATA, Matlab, Google Analytics, Cognos, AWS Sagemaker & Redshift, Power Apps including Power Automate, Sharepoint, Smartsheet, LLM/AI use and training including ClaudeCode, Cursor, Gemini, ChatGPT and local LLM models