

Kyle Shiroma

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Education

University of California, San Diego

B.S. in Data Science, (Minor in Mathematics)

La Jolla, CA

Expected June 2027

Norco College

Associate of Science for Transfer (Mathematics): GPA: 3.75

Norco, CA

August 2022 – June 2025

- **Relevant Coursework:** Data Structures & Algorithms, Probability & Statistics, Linear Algebra, Calculus I–III, Differential Equations

Experience

Norco College Learning Resources Center

Peer Tutor

Norco, CA

Jan. 2023 – June 2025

- **Tutored 100+ students** in Calculus, Statistics, and C++ programming, developing customized learning strategies that improved comprehension and academic performance.
- Independently managed payroll tracking using **Microsoft Excel**, streamlining data entry and ensuring 100% accuracy in hours and payments.

CIC-Summer Research Program, California State University, Fullerton

Data Science Research Intern

Fullerton, CA

May 2024 – July 2024

- **Built and evaluated machine learning models** (Logistic Regression, XGBoost, Random Forest) on **5,900+** UEFA matches to predict outcomes, engineering predictive features including dynamic Elo ratings, Elo difference, and venue indicators to improve model signal strength.
- **Achieved 61% accuracy with 20% improvement in recall for the rare "Draw" class**, identifying Elo difference as the most influential predictive feature through comprehensive feature importance analysis.
- Created model evaluation visualizations including confusion matrices and feature importance analysis.

Projects

Pulsepanion – AI4Purpose NYC Hackathon Winner (Team Lead)

- Led team in developing **bilingual R Shiny dashboard** enabling caregivers to upload patient health data and generate **clear, actionable summaries in <15 seconds**.
- Integrated **Python preprocessing** and **OpenAI-powered natural language generation** via *reticulate*, **reducing manual review time by 70%**.

Customer Segmentation with RFM Analysis

- **Analyzed 500,000+ retail transactions across 37 countries** using SQL transformations and **RFM segmentation** to identify five distinct customer behavioral segments (Big Spenders, At Risk, Recent One-Time buyers).
- **Optimized marketing spend allocation by 25%** by revealing seasonal purchasing trends and creating interactive **Tableau** dashboards that converted raw sales data into strategic business insights.

Skills

Technical Skills: Python (pandas, NumPy, scikit-learn, XGBoost), SQL, R, Jupyter, Time Series Forecasting, Feature Engineering, Model Evaluation, Statistical Analysis

Visualization & Communication: Tableau, Matplotlib, Seaborn, R Shiny, Business Intelligence, Dashboard Development

Tools & Platforms: Git, PostgreSQL, SQLite, AWS (S3, EC2), Docker, Apache Airflow

Soft Skills: Communication, Team Leadership, Collaboration, Problem-Solving, Adaptability, Critical Thinking, Mentorship

Certifications

- **Apache Airflow: The Hands-On Guide (Udemy)** – Building scalable data pipelines using DAGs, Docker, and AWS S3.