Hudson Smith

(925) 550 - 3568 · husmith@berkeley.edu · https://github.com/PinkyHuddy

EDUCATION

University of California Berkeley - Applied Mathematics BA (Data Science Concentration)
Expected Graduation May 2026 *GPA: 3.5/4.0*

Relevant Coursework: Probability Theory, Statistical Inference, Linear Algebra, Real Analysis, Data Structures, Principles and Techniques of Data Science

PROJECTS

Water Park Ticket Predictor | GitHub

- Extracted and structured daily sales data from a 2,600-page PDF of transaction records. Built regression models to predict daily ticket sales using weather and temporal features. Compared scikit-learn linear regression with a PyTorch neural network; linear model achieved lower test RMSE of 37 tickets versus 180 for the neural net, and better generalization.
- Analyzed residuals and high-variance days, concluding demand volatility limited predictability at extreme sales levels.
- Found feature engineering contributed more to performance gains than increased model complexity for this dataset.

Spam Email Filter

- Applied data analysis of over 8000 emails to find keywords, symbols, and trends (HTML and Links) that correlated to spam emails.
- Used feature engineering, and then trained a logistic regression model.
  Applied K Folds cross-validation
- Balanced performance tradeoffs with applicability.

WORK EXPERIENCE

City of Brentwood *April 2022 - August 2025*
Assistant Pool Manager

- Led bi-weekly of 30+ staff members, training to strengthen teamwork and response in high stress scenarios.
- Applied creative thinking to come up with quick solutions to urgent problems. Quickly evaluated staff numbers along with temperature to see if opening was in question during peak temperature days.

SKILLS

Languages: Python, Java, SQL
Tool and Software: InteliJ Idea, VS Code, Jupyter Notebook, MatLab
Libraries: Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, PyTorch