Nicholas F. Zermeno

Greater Los Angeles Area

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Seeking an entry-level or intern position that challenges me to apply math and statistical skills to real-world applications

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Projects

⌂ Personal Portfolio

- A personal portfolio website, showcasing my skills and experience in mathematics, data science and machine learning. The website effectively communicates my technical abilities and creativity through visually appealing and rigorous projects, samples of two can be found below.

⌘ House Prices in Iowa

January 2022 - May 2022

- Collaborated with a team to use advanced regression techniques such as random forests in R to predict the sale price of a house using over 70 explanatory variables. Also performed data cleanup and presented the results visually.

⌘ Computer Vision and Dog Breed Classification

August 2022 - December 2022

- Collaborated with a team that met on regular intervals to optimize our model and present to an audience; used TensorFlow and Keras on a locally hosted GPU to accurately predict the correct breed of a dog from an image. Includes scraping the web for images of different dog breeds, applying filters to said images to create a more robust data set, and used a convolutional neural network within the deep learning framework.

Education

🏛 California State University, Northridge

August 2020 - May 2023
Northridge, CA

B.S, Applied Mathematics - Cumulative GPA: 3.4

Relevant Coursework

- Rigorously establish fundamental analytic properties and results, such as limits, continuity, differentiability, and integrability

- Understand the theory and application behind multivariate regressions and optimization with a study focus on statistical mathematics

- Computational techniques in Python and R for supervised learning and unsupervised learning such as K-means clustering, Neural Networks, SVM, and logistic regressions.

Work Experience

Assistant Manager

September 2013 - April 2020
Lancaster, CA

Vince's Pasta and Pizza (30 Hrs/Week)

- Led a team of five employees and played a pivotal role in optimizing daily operations to ensure seamless customer experiences.

- Performed daily cash management duties, including opening cash drawers, reconciling cash and credit transactions, and ensuring accuracy of funds for the start of business operations.

Skills

- Proficiency in Microsoft Office Suite
- Time management and organization

- Experience in R, TensorFlow, LaTeX, Python, SQL
- Statistical modeling and optimization

- Effective communication and leadership
- Data analysis and diagnostics