Quilvio Hernandez

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Education

University of California - Davis, Davis, CA, Expected Jun 2021
Bachelor of Science, Mathematical Analytics and Operations Research, GPA: 3.38
Relevant Coursework: Mathematics for Data Analytics & Decision Making, Big Data & High Performance Statistical Computing, Data Science, Optimization, Numerical Analysis, Stochastic Processes, Probability, Financial Econometrics

Experience

DoubleLine Capital LP, Los Angeles, CA
Operations Intern, Jun 2020 – Aug 2020
- Identified trends from 100,000+ rows of RIA data to generate reliable sales opportunities increasing revenues by 15%.
- Automated daily performance check reporting to determine outliers using Python clustering analysis.
- Organized and updated BNY Mellon statements into centralized database.

Sacramento Kings, Sacramento, CA
Business Analytics Intern, Sep 2019 – Mar 2020
- Implemented machine learning techniques in R to forecast ticket sales and season ticket members retention rates.
- Created and maintained daily pacing projection dashboard for G League affiliate, Stockton Kings.
- Compiled large data sets for dashboards and reporting using SQL queries.
- Designed and collaborated on market research initiatives to identify new business opportunities for Stockton Kings.
- Synthesized and communicated data-driven business insights with elegant data visualizations to key stakeholders.

Kaiser Permanente, San Diego, CA
Data Security Intern, Jun 2019 – Sep 2019
- Streamlined JRM/ACL updating process, reducing completion time by 90% with 97% accuracy through automation.
- Coded VBA scripts to produce monthly metric reports on team performance.
- Prepared "Intern Class Hiring Book" to be distributed to hiring managers across Kaiser.

University of California, Davis – Department of Economics, Davis, CA
Undergraduate Research Assistant, Sep 2018 – Mar 2019
- Analyzed 10 theoretical economic research papers on consumer behavior, herding, and bubbles to construct a mathematical model for predatory fundamental financial asset pricing.
- Presented mathematical proofs, analysis, and extension proposals of papers to research supervisor through presentations.

Projects

10-Day Ticket Sale Forecast
- Created a dynamic forecasting model to predict ticket sales using Bayesian neural network.
- Gathered data using SQL queries and webscraping to form a dataset with customer and basketball related features.

MLB MVP Probability Scores
- Aggregated data from Fangraphs and Wikipedia and used random forest in R to generate probability scores.

Activities & Awards

Dean's Honors List
Student Instructor (L&S Ambassadors' Guide to the UCD Galaxy)
Undergraduate Education Student Advisory Board Member
Hispanic Scholarship Fund Finance Scholar
College of Letters and Science Ambassador
Hispanic Scholarship Fund Scholar
Moneyball Club President
Chicanx Latinx Collegiate Association Cofounder

Skills & Interests

Technical Skills: Python, R, SQL, VBA, Tableau, MATLAB, Stata, Excel, PowerPoint
Modelling: linear and logistic regression, random forest, kNN, SVM, XGBoost, Neural Networks, PCA, Word2Vec
Data Visualization: ggplot2, seaborn, matplotlib, plotly, Excel
Libraries and Packages: pandas, numpy, scikit-learn, PyTorch, tidyverse, caret, rvest
Interests: Basketball, Chess, Reading, and Running