

Ricky Martin

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EDUCATION

University of California, San Diego

San Diego, CA

Bachelor of Science in Cognitive Science with a specialization in Machine Learning

Graduated July 2021

- Senior Electronic Component Developer – Better Life Club
- Leadership Development (LEAD) Executive Chairman – UCSD Sigma Nu Fraternity
- Machine Learning Seminar Leader (50+ Participants) – Jacobs School of Engineering
- Autonomous Drone – IEEE UCSD

SKILLS

Languages: Python, C++, SQL, C, Java, MATLAB

Frameworks: Caffe, Keras, Numpy, OpenCV, Pandas, Pytorch, Scikit-Learn, Spark, Tensorflow

Technologies: Agile Development, AWS, Excel, Git, Hadoop, Linux, MySQL, OOP, Tableau, Arduino

EXPERIENCE

Redica Systems (Formerly Govzilla)

Los Angeles (Remote)

Data Science Intern

October 2020 – September 2021

- Developed automated Unsupervised modelling system using a DBSCAN algorithm to cluster incoming document-based FDA inspection data, utilizing MapReduce and various AWS NLP techniques to do so with > 90% accuracy
- Increased the computing efficiency of a semi-supervised tokenization-based classification system by 20% and increased accuracy from 85% to 91% in predicting various document types
- Created over 10 easy to digest model visualizations to help team members understand complex analysis results
- Designed several customized Tableau Dashboards showcasing live updated KPI metrics as requested by customer

Triton Funds LLC.

San Diego, CA

Machine Learning Engineer (Contract)

March 2021 – August 2021

- Utilized stock market data to create yield projections using supervised ML algorithms leading to 5% increase in ROI
- Built pipeline to extract, analyse, prepare, transform, and monitor data to improve model training and evaluation

Mike Tolley's Bioinspired Robotics and Design Lab at UCSD (BRDL)

San Diego, CA

Robotics Engineering Researcher (Specialized in Machine Learning)

May 2019 – July 2021

Co-Author for Paper Published in 2020 IEEE-RAS International Conference on Soft Robotics

- Lead the construction of 5 distinct affective touch-based artificial Skin iterations using an Arduino Uno and force sensors manufactured in Lab (UCSD BRDL) to mimic/recreate human mechanosensory neurons
- Employed GridSearch comparing KNN, SVM, ANN, and LSTM models, achieving 93% accuracy in touch labelling
- Created ML training pipeline to load, configure, and classify live time-series data to distinguish action to skin
- Built a Random Forrest based parameter tuning system that utilizes impactful features for 50% faster classification

GoSite, Inc.

San Diego, CA

Data Science Intern

October 2019 – October 2020

- Generated over 2 million leads for SDR team, which included YP, LinkedIn, and Google data through web scraping
- Increased ad targeting effectiveness by 20% by scoring users' needs from insights gained through ad conversions
- Designed ANN and KNN based recommendation systems that led to Data-Driven shift in targeted companies
- Used sentiment analysis techniques to track customer health metrics for improved customer technical support

RELEVANT PROJECTS

Personal Website: <https://rickymartin-dev.github.io/> (for additional information and projects)

Robot Organizer: Applied Reinforcement Learning techniques to allow a warehouse sorting robot to find optimal path through an artificially created maze which is representative of factory space

Twitter Analysis: Used Sentiment Analysis to measure Russian Tweet Bot influence on political threads