

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++, C, SQL, Java

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

Technologies: Tableau, AWS, ROS, Linux, MySQL, Arduino, Git, OOP, Hadoop

EXPERIENCE

Redica Systems (Formerly Govzilla)

Los Angeles (Remote)

Data Science Intern

October 2020 – August 2021

- Developed an 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 sorting system by 20% and increased accuracy from 85% to 91% in categorizing 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

Software Engineer (Contract)

April 2021 – August 2021

- Utilized stock market data to create yield projections using supervised ML algorithms leading to 5% increase in ROI
- Set up data pipeline to manage, clean, handle, encode, scale, and transform data to improve Data Analysis

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 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/Software Engineering 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 lead potential from insights gained through ad conversions
- Designed an ANN and KNN based rating system with 85% accuracy on quality (60s on phone) and 70% on sale
- 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 Dog: Platform to apply different technologies to such as object detection and facial recognition

ML Library: Created an all-encompassing personal Machine Learning library which includes supervised, unsupervised, semi-supervised, Deep, Reinforcement, and Genetic Learning models.