US CITIZEN

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, Pytorch, OpenCV, Numpy, Pandas
Technologies: Tableau, AWS, ROS, Linux, MySQL, Arduino, Git, CI/CD, OOP, Hadoop, MongoDB

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.