Ricky Martin

New York City, New York 10009
(661) 808-3055
Rickylenmartin@gmail.com
linkedin.com/in/ricky-martin-7205

EDUCATION

University of California, San Diego   **San Diego, CA**
B.S. in Cognitive Science with a specialization in Machine Learning   Graduated Jun 2021
- Senior Electronic Component Developer - Better Life Club
- Leadership Development (LEAD) Executive Chairman - UCSD Sigma Nu Fraternity
- Hosted an Introduction to Machine Learning Lecture (50+ Participants) - Jacobs School of Engineering (2020)
- Autonomous Drone - IEEE UCSD Yearly Project member (2018)

TECHNICAL SKILLS

Technologies: Languages (Python, C++, C, MATLAB, SQL), CAD (Solidworks, Autodesk360), Data Visualization (Tableau), Arduino, Raspberry Pi, ROS, AWS (S3, Lambda, Sagemaker), Git
Frameworks: Tensorflow, Numpy, Scitkit-Learn, Keras, OpenCV, Scipy, BeautifulSoup, Pytorch, Pandas, Seaborn, NLTK

PROFESSIONAL EXPERIENCE

Data Scientist   **Los Angeles, CA (Remote)**
Redica Systems (Formerly Govzilla)   October 2020 – August 2021
- Maintained an automated Unsupervised modeling system, DBSCAN, that worked to cluster incoming document-based FDA inspection data utilizing MapReduce and various NLP techniques by use of created "tagging" with > 90% accuracy
- Improved a Semi-Supervised sorting system from 85% to 91% accuracy in categorizing various document types that made categorization less computationally expensive as compared to the manual word checking infrastructure previously used
- Implemented easy to use model visualizations to help other team members better understand the ML categorizing techniques
- Designed several Tableau visualizations showcasing KPI measurements as specified by customer needs

Data Scientist (Contract Work)   **San Diego, CA**
Triton Funds LLC.   April 2021 – August 2021
- Utilized stock market data to create yield projections using supervised ML Algorithms leading to a 5% increase in ROI
- Handled the creation of multiple Tableau Dashboards for customer KPIs, Investment Health Metrics, and Employee growth
- Set up pipeline to manage, clean, handle, encode, scale, and transform data to ensure efficient automated Dashboard updates

Robotics Engineering Researcher (Specialization in Machine Learning)   **San Diego, CA**
Mike Tolley's Bioinspired Robotics and Design Lab at UCSD   May 2019 – July 2021
Co-Wrote Paper Published through IEEE International (Accepted)   Dec 2019
- Constructed an Electronic Touch-Based Skin using an Arduino Uno and force sensors manufactured in lab (UCSD BRDL)
- Employed GridSearch comparing ANN, KNN, SVM, and LSTM Model, achieving 93% accuracy in touch categorization
- Created an ML pipeline to load, configure, and categorize live time series data to distinguish action to skin (t = .5 s +/- .1s)
- Built a Random Forrest based Parameter Tuning system that utilizes impactful features for faster less intensive classification

Software Engineer, Machine Learning Intern   **San Diego, CA**
Gosite, Inc.   October 2019 – October 2020
- Generated 2 million + leads for SDR team, which included Yellowpages, LinkedIn, and Google data through web scraping
- Increased ad targeting effectiveness by 20% by scoring lead potential from insights gained through ad conversion rate data
- Designed an ANN and KNN based rating system, with 85% accuracy on quality (60s talk time) and a 70% accuracy on sale
- Used NLP techniques to extract more accurate data on customers achieving better data quality for future models

PROJECTS

Robot Arm Maze Solver   May 2021
- Created a self-contained system that could sort packages through a maze by use of a top mounted camera interacting with a robotic arm that physically moved an object from point A to point B through employment of Reinforcement Learning
- Achieved a system capable of adapting to changing environments in real time using OpenCV framework

Data Science/Analysis Project Lead   **San Diego, CA**
Undergraduate Research Class - Russian Twitter Bot Influence on the United States   December 2019
- Implemented Find-Leaning sentiment ML algorithm with an SGD Classifier and obtained 93% test accuracy
- Conducted word frequency analysis and correlation analysis on Russian Tweet Bot Dataset's leftist and rightist accounts
- Selected to be published in the Journal of Statistics Education by Bradley Voytek as distinguished research