

Ricky Martin

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PROFESSIONAL EXPERIENCE

Ardent

New York, NY (Remote)

Mid-Level Machine Learning (AI) Engineer

January 2022 - May 2023

- Devised classification algorithm for heavily skewed data using XGBoost and PySpark, achieving best PRAUC score of **.91** after employing SMOTE techniques. Built/Monitored via AWS SageMaker
- Partnered with security team to build end-to-end time series models (ARIMA, Kalman Filter, Prophet) to monitor login attempts in Splunk in real time **predicting anomalies** and reducing threat targeting time by **90%**
- Built, maintained, and automated ML pipeline using technologies like GraphQL, SQL, Python, and AWS to serve API endpoints used for time based predictions on internal performance metrics and root cause analysis
- Directed team of 2 in using Tensorflow to build **POC** Object Detection Algorithms through use of custom Drone Camera Data

Redica Systems

Los Angeles, CA (Remote)

Data Scientist

October 2020 - October 2021

- Implemented production-level semi-supervised DBSCAN algorithm in Python, utilizing NLP techniques like TF-IDF through NLTK to segment documents, streamlining the manual labeling process and saving **40+** man hours
- Improved precision and recall of supervised deep learning model by **10%** using feature engineering, enhancing model effectiveness
- Collaborated with **cross-functional partners** to define client **KPIs** and presented customizable data analytics dashboards in Tableau showcasing impact of data-driven solutions based on specified client data

UCSD Bio Inspired Robotics and Design Lab

San Diego, CA

Data Science (ML) Researcher

May 2018 - June 2021

- Spearheaded the construction of 5 distinct **ML on edge** iterations gathering/building large datasets from live sensor data and using Python/C++ to extract, clean, transform, interpret, and train **Sequence-to-Vector Deep Learning** LSTM/GRU Models
- Devised a Random Forest parameter tuning pipeline that utilized impactful features for **50%** faster classification
- Built **GAN** model using Keras and Tensorflow to extend custom dataset increasing training dataset

GoSite

San Diego, CA

Data Science Intern

October 2019 - October 2020

- Developed **recommendation system** using SVM and KNN models to rank new leads based on predicted call length and probability of purchasing website development services, resulting in a **20%** increased conversion rate
- Wrote cost optimization script that calculated efficiency of project scope to that of GPU instance for **70%** cost reduction

PROJECTS

Fine Tuned ChatGPT Chatbot for Personal Website [Website](#)

- Built, Dockerized, and Deployed user-friendly ChatGPT chatbot using OPENAI API, LangChain, and Flask to engage visitors and showcase applied NLP communication skills. Fine tuned bot on extended resume to answer questions about my skill set

End-To-End Machine Learning Titanic EDA + ML Optimization [Kaggle](#)

- Kickstart series of tutorials I am making to introduce what real world ML looks like for the influx of new Data Scientists

Robot Arm Optimal Path Finder [Github](#)

- Instructed a team in applying Q-Learning Reinforcement Learning to find optimal path through 3d printed maze using robotic arm

TECHNICAL SKILLS

Languages: Python, R, SQL, C++, Bash

Frameworks: NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, OpenCV, TensorFlow, Keras, Pytorch, Flask

Domain Knowledge: A/B testing, statistical modeling, ETL, time-series, CNN, RNN, Transformer, BERT, GPT

Technologies: AWS, CICD, Docker, Databricks, Excel, Git, HuggingFace, Jupyter, JSON, Linux, SageMaker, Spark, Tableau

EDUCATION

UC San Diego

Graduated June 2021

B.S. in Cognitive Science (Machine Learning Specialization)

PUBLICATIONS

Classification of components of affective touch using rapidly manufacturable, soft, sensor skins - IEEE-RAS 2020

Towards classification of components of affective touch using rapidly manufacturable, soft, sensor skins - RoboTac 2019