

RYAN LEWIS

ML DEVELOPER

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Skills

PROGRAMMING

Python
SQL
C++
Assembly
JavaScript/TypeScript
Matlab
LabVIEW
PLC (Siemens)
LaTeX

MACHINE LEARNING

Keras/TensorFlow
SKLearn
IMBLearn
Nvidia RAPIDS
RLLib
OpenAI Gym
ROS (Robot Operating System)
Gazebo
OpenCV

EMBEDDED SYSTEMS

Arduino
PIC
ESP32/8266
Teensy
Raspberry Pi

DATA VISUALIZATION

Matplotlib
Seaborn
Plotly
OpenCV

Experience

Metis

Machine Learning Developer

San Francisco, CA (Remote)

Sept. 2020 to Current

Metis is an ACCET accredited 12week immersive data science bootcamp focused on project oriented learning.

Projects: Produced machine learning and natural language processing models in the medical, ecological, financial and robotics industries

Tools/Skills used: Machine Learning, Exploratory Data Analysis, Deep Learning, Reinforcement Learning, Python and SQL

Mad Drone Aviation

Systems Engineer

Queens, NY

Oct. 2018 to Oct. 2020

Projects: Designed, built and programmed drones for clients and internal use

Tools/Skills used: CAD, DFM, tooling design, client and vendor relations/acquisitions, QMS implementation, Flight controller programming/configuration, RF rx/tx configuration, electro-mechanical systems testing, CV implementation of post-flight NDT

Composite Prototyping Center

Manufacturing/Process Engineer

Plainview, NY

Mar. 2019 to Sept. 2019

Projects: Designed and manufactured carbon fiber parts for clients

Tools/Skills used: Supply chain management, composite tooling design, DFM, manufacturing process optimization, RFP generation for DOD and private industry, CNC programming, GD&T

Grand Prix Café

Project Lead

Southampton, NY

Oct. 2017 to Aug. 2018

Projects: Lead restoration projects for multiple classic Ferraris and other cars

Tools/Skills used: Implemented basic PLM techniques, Expedited external processes by connecting suppliers, reduced lead time and cost by sourcing new suppliers

Projects

Urban Autonomous Vehicle Simulation

Using Flow, Ray/RLLib and OpenAI Gym to simulate and train autonomous vehicles/human drivers in SUMO (Simulation of Urban Mobility)

10-K NLP Analysis

Used NLP techniques to determine the sentiment and similarity between 10-Ks which are filed annually by publicly traded companies. These similarities were used as metrics for predicting subsequent price movements

Drug Method-of-Action Predictor

Generated several multi-target regression models using SKLearn and CuML to predict which effects a drug would have based on chemical and genetic markers

San Joaquin Zooplankton Predictor

Used SKLearn Logistic Regression to predict the quantity of zooplankton (a key food source for the endangered Delta Smelt) present in the San Joaquin Delta using historic water quality data from USGS

Speech Recognition

Used a Keras neural network to correctly identify 1 of 30 spoken words with 95% accuracy

Education

Vaughn College of Aeronautics and Technology

Mechatronic Engineering 2019

Capstone Project: Computer vision based path planning for custom quadcopter

Founder and President of school's SAE (Society of Automotive Engineers) chapter

Published: "Vehicle Design for Formula SAE 2019 Competition" - Latin American and Caribbean Consortium of Engineering Institutions(LACCEI)

Activites

Guitar - Classical and Contemporary

Competitive Sailing - Keelboat and Dinghy

Autonomous Drone Design and Fabrication

Cobb Certified Subaru Performance Tuner