

Aashin Shazar

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Experience

Undergraduate Research Assistant

Intelligent Computing and Embedded Systems Lab

03/2020 - Present

California, USA

- > Led software development of next generation sensor fault-tolerant prosthetic technology.
- > Optimized implementation of prototype MATLAB code in Python with a 98% performance gain.
- > Identified a set of top performing models to boost classifier accuracy from 20% to 93%.

Equipment Engineering Intern

Tesla

05/2017 - 08/2018

California, USA

- > Managed complete SCADA implementation for 3 production machines to collect, store and report metrics.
- > Created data visualization dashboards for 15 structural casted parts to assist with engineering analysis.
- > Developed a \$3.75M cost saving machine learning application to yield greater process efficiency.

Education

Bachelor of Science in Computer Engineering

San Francisco State University

08/2018 - 12/2020

California, USA

- > Activities: Vice President of Alpha Sigma Phi
- > Electives: Control Systems, Engineering Cost Analysis, Philosophy of Research Ethics

Machine Learning Engineer Nanodegree

Udacity

09/2018

- > Capstone: Application of Convolutional Neural Networks to Identify Defective Automotive Components
- > Coursework: Supervised Learning, Unsupervised Learning, Deep Learning, Reinforcement Learning

Projects

E.M.I.L.A

08/2019

- > ashazar.me/projects/emila
- > Electromyography Muscular Interface Limb Assist (EMILA) was a cursory investigation into robotic prosthetics. This project gathers EMG data from EMG sensors which is then interpreted by a machine learning classifier to perform a previously mapped gesture.

ReelLife

05/2019

- > ashazar.me/projects/reellife
- > ReelLife was an entry for the 2019 SFSU hackathon competition. It assists content creators automate the process of finding the best thumbnails, highlights and perfect shots for promotional material using a machine learning classifier.

Skills

Programming Python, MATLAB, C/C++, Java, Verilog

Data Science Numpy, Pandas, SQL, Numba

Machine Learning Keras, Sci-kit Learn, Tensorflow