Aashin Shazar

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Experience

Intelligent Computing and Embedded Systems Lab 03/2020 - Present
Undergraduate Research Assistant *California, USA*

- Research involves development of next generation sensor fault-tolerant prosthetic technology.
- Managed complete implementation of prototype MATLAB code in Python with a 98% performance gain.
- Conducted data exploration to inform data collection best practices and parameter selection.

Tesla 05/2017 - 08/2018
Equipment Engineering Intern *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

San Francisco State University 08/2018 - Present
BS, Computer Engineering *San Francisco, CA, USA*

- Activities: Vice President of Alpha Sigma Phi

Udacity 09/2018
Certificate, Machine Learning Engineer Nanodegree

Projects

EMILA 08/2019

- ashazar.me/projects/emila
- Electromyography Muscular Interface Limb Assist (EMILA) is 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.

Udacity's Capstone Project 05/2018

- A bottom up investigative research paper concerning the application of convolutional neural networks in a die-casting manufacturing environment. It features an exploratory analysis on the detection of surface defects on aluminum castings along with an indepth look on the usage of limited datasets to yield reliable results that can be applied to a mass manufacturing facility.

Skills

Programming Python, MATLAB, C/C++, Java, Verilog
Data Science Numpy, Pandas, SQL, Numba
Machine Learning Keras, Sci-kit Learn, Tensorflow