AASHIN SHAZAR

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Work experience

Undergraduate Research Assistant   03/2020 – present
Intelligent Computing and Embedded Systems Lab, California, United States

- Research involves the implementation of a next generation neural-machine interface on a real time embedded system.
- 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.

Equipment Engineering Intern   05/2017 – 08/2018
Tesla, 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

Computer Engineering   08/2018 – present
San Francisco State University

Extracurriculars: Vice President of Alpha Sigma Phi

Projects

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 in-depth look on the usage of limited datasets to yield reliable results that can be applied to a mass manufacturing facility.

EMILA
08/2019
https://github.com/AashinShazar/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.

Certificates

Machine Learning Engineer Nanodegree
Udacity

Skills

Programming
Python, C++, Verilog, Matlab, C, Java

Data Science
Numpy, Pandas, SQL, Numba

Machine Learning
Keras, Sci-kit Learn, Ray