Aashin Shazar

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Experience

Undergraduate Research Assistant 03/2020 - Present
Intelligent Computing and Embedded Systems Lab *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.
- Designed new features for parameter investigation to boost classifier accuracy from 20% to 93%.

Equipment Engineering Intern 05/2017 - 08/2018
Tesla *California, USA*

- Created data pipeline to visualize KPIs for 15 crash safety critical automotive components.
- Redesigned data acquisition software to integrate production vital equipment into the data pipeline.
- Developed a $3.75M cost saving machine learning application to yield greater process efficiency.

Education

Bachelor of Science in Computer Engineering 08/2018 - 12/2020
San Francisco State University *California, USA*

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

Machine Learning Engineer Nanodegree 09/2018
Udacity

- 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, SCADA
Machine Learning Keras, Sci-kit Learn, Tensorflow