

Aashin Shazar

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Experience

Undergraduate Research Assistant

Intelligent Computing and Embedded Systems Lab

03/2020 - Present
California, USA

- > Spearheaded Python development of rapid sensor fault recovery in prosthetic research.
- > 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%.
- > Built a real time application of sensor fault detection on a GPU featuring a 5x speedup over CPU.

Engineering Intern

Tesla

05/2017 - 08/2018
California, USA

- > Developed a \$3.75M cost saving machine learning application to yield greater process efficiency.
- > 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.
- > Utilized automated report generation to capture daily ongoing quality issues for 2 production lines.

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 Certificate

Udacity

09/2018

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

Projects

Python Seminar: Intro to Business Applications

10/2020

- > ashazar.me/projects/seminar
- > This Python Seminar was conducted at San Francisco State University and introduced python to solve business applications. We looked at the usage of libraries such as numpy, pandas and matplotlib to do a simple linear regression case study, plot the relationships and generate a report of the findings.

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 with the help of a microcontroller programmed in C.

Skills

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

Data Science Numpy, Scipy, Pandas, SQL, Matplotlib, SCADA

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