Alex Lamson

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Skills

Languages   Python, Jupyter | Scala, Java, C++ | Javascript, Bootstrap, React
Frameworks   numpy, pandas, sklearn, pytorch | Git | PostgreSQL, MongoDB

Research

W!NCE: Unobtrusive Sensing of Upper Facial Action Units with EOG-based Eyewear
- Cleaned data and built a machine learning model to predict blinks
- Accepted to ACM IMWUT in March 2019

Projects

Room Localization using Ambient Sound
- Programmed app that determines the room you are in using the phone's microphone
- Achieved accuracy of 97.2% with 5 rooms

Exploring the Effects of Context in Image Classification
- Created and tested new data augmentation technique that removes context from images in an attempt to improve classifier accuracy

8x8x8 LED Cube
- Built 1 ft tall 3D RGB LED lattice
- Programmed it to act as a real-time 3d display by streaming webcam video

Work Experience

Research Assistant   ***UMass Amherst***   *May 2018 - Present*
- Building ML pipeline to detect pill intakes using smartwatch motion data
- Designed ML pipeline for predicting temper tantrums via on-body sensors

Intern Undergrad Associate   ***Dell SonicWALL***   *May - August 2016*
- Wrote library to dynamically load machine learning features
- Assisted interns with machine learning and automation

Summer Intern   ***Gliimpse***   *June - August 2015*
- Programmed a web dashboard to visualize the data quality in real time
- Created iOS app that integrated with Apple Healthkit. Startup was later sold to Apple

Software Development Advisor   ***Dell SonicWALL***   *June - August 2014*
- Automated system reports & used MatPlotLib to visualize email metadata

Education

Masters in Computer Science at UMass Amherst (**GPA 3.82**)   2018-2020 (expected)
Bachelors in Computer Science at UMass Amherst (**GPA 3.53**)   2014-2018