ETHAN NELSON

(770) 689-7042 | einelson8i@gmail.com | linkedin.com/in/ethan-nelson/ | einelson.github.io

Education

Brigham Young University-Idaho   Apr 2021
BS. Science in Computer Science   *Rexburg, ID*

Python	Machine learning	Data visualization	SQL
TensorFlow/Keras	Plotly/ Matplotlib	Clustering, Neural Nets	C++

Work Experience

Data Science Intern   Jan 2021-Present
Snow Data Science   *Houston TX, Rexburg, ID*
- Using data visualization to create results that are easily understandable
- Researching unsupervised machine learning algorithms pertaining to clustering and use of PCA
- Program will work with large systems to detect and pinpoint where faults are occurring

Data Reviewer, Annotator   Feb 2020-Jan 2021
Research & Business Development Center   *Rexburg, ID*
- Conducted research under a Machine Learning Engineer in order to increase working knowledge on machine learning algorithms specifically dealing with neural networks, semantic segmentation and point cloud classification.
- Built neural network with Point Net and TensorFlow to classify point cloud data to help achieve a fully automated warehouse.
- Correctly applied algorithms to classify point cloud data.
- Contributed to 80,000+ image data set to train machine learning algorithm in recognizing product details

Project Experience

Image Colorization   Nov 2019-Dec 2019
Student Project   *Rexburg, ID*
- Trained a machine learning algorithm using an 800+ image database.
- Deepened knowledge on Convolutional Neural Networks and image pre-processing by experimenting and researching relevant data.
- Collaborated with team to maximize efficiency in preparing training and modeling training data to speed up result time.

EEG Eye-State Data Research   Jan 2020-Feb 2020
Personal Project   *Rexburg, ID*
- Conducted and applied research in order to understand EEG data and how it works with machine learning.
- Built and trained a network that could classify eye state data with a 94.53% accuracy.

Other Relevant

Won nation-wide youth competition | enelson8   Sept 2013
- Used multiple technologies to create a creative home improvement project.
- Innovated, designed and built a system to toggle lights from bed.
- Use of 3-D printing, Raspberry Pi, Arduino, soldering, plexiglass.