

BRADEN HANNA

Software Engineer

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🌐 LinkedIn

🐙 Github

EDUCATION

M.S.

Artificial Intelligence and Machine Learning

Colorado State University Global

📅 Sep 2021 - Jun 2023

📍 Online

🎓 GPA: 4.0

B.S.

Computer Science

Central Washington University

📅 Sep 2017 - Jun 2021

📍 Ellensburg, WA

Minors: Mathematics, Biology

RELEVANT COURSES

Computer Vision

Project Management for Software Engineers

Data Mining

Data Structures & Algorithms

Algorithm Analysis

Computational Statistics

Biostatistics

Optimization

Linear Algebra

Advanced Software Engineering

SKILLS

Languages

Python, Java, SQL

Technical Skills

Data Cleaning, Data Analysis, Optimization, Tensorflow, Keras, Pandas, Matplotlib, Deep Learning, OpenCV, Streamlit, Tableau, Linear Regression, Software Engineering, Software Project Lifecycle, Data Structures, Algorithm Analysis, Statistics, Mathematics, Biology, Chemistry, Hypothesis Testing, Excel

PROJECTS

Face Anonymizer Web App

Creator

📅 March 2022

- Implemented four different face detection methods that the user can switch between (OpenCV DNN, OpenCV Haar-Cascade, Dlib HoG, Dlib CNN).
- Utilized Streamlit sliders to allow the user to have full control over parameters for each face detection algorithm to ensure 100% accuracy.
- Built an algorithm that leverages a pre-trained facial landmark detector to find eyes and blur their area plus padding.
- Allows user to download their final anonymized photo.
- URL: <https://share.streamlit.io/defqon7/eyebur/main.py>
- Github Link: <https://github.com/Defqon7/Face-Anonymizer-Web-App>
- Demo Video: https://youtu.be/UjyxuL_9L4E

Customer Segmentation

Creator

📅 Dec 2021

- Cleaned and explored the data to find patterns.
- Used k-means clustering to 3D cluster customers by age, income, and spending.
- Github Link: <https://github.com/Defqon7/Customer-Segmentation>

Cell Segmentation

Creator

📅 Feb 2022

- Performed cell segmentation on a human cheek cell using Laplacian of Gaussian edge detection, morphological operators, and skimage's segmentation library.
- Github Link: https://github.com/Defqon7/Cell_Segmentation

Climate Change Predictor Variables

Creator

📅 Feb 2021

- Performed linear regression using monthly data from 1985-2008 with global temperature vs. 8 believed predictor variables for climate change.
- Found that 5 out of the 8 believed predictor variables were significantly correlated with an increase in global temperature.
- Github Link: <https://github.com/Defqon7/ClimateChangePredictorVariables>

WORK EXPERIENCE

Merchandiser

TNG Merchandising

📅 Jun 2018 - May 2020

📍 Ellensburg, WA

Cashier

CENTRAL MARKET

📅 Jun 2018 - Jan 2020

📍 Ellensburg, WA

Merchandiser

RMSI

📅 Nov 2018 - May 2020

📍 Ellensburg, WA